



US009149085B2

(12) **United States Patent**
Bryan et al.

(10) **Patent No.:** **US 9,149,085 B2**
(45) **Date of Patent:** **Oct. 6, 2015**

(54) **BRIM FOR ATTACHING TO HEADGEAR**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 674 days.

(21) Appl. No.: **13/400,309**

(22) Filed: **Feb. 20, 2012**

(65) **Prior Publication Data**

US 2012/0210491 A1 Aug. 23, 2012

Related U.S. Application Data

(60) Provisional application No. 61/445,031, filed on Feb.
21, 2011, provisional application No. 61/480,004,
filed on Apr. 28, 2011.

(51) **Int. Cl.**
A42B 3/22 (2006.01)

(52) **U.S. Cl.**
CPC **A42B 3/227** (2013.01)

(58) **Field of Classification Search**
CPC A42B 1/20; A42B 1/205; A42B 1/006;
A42B 1/24; A42B 3/221
USPC 2/209.12, 175.1, 175.4, 175.6, 195.1
See application file for complete search history.

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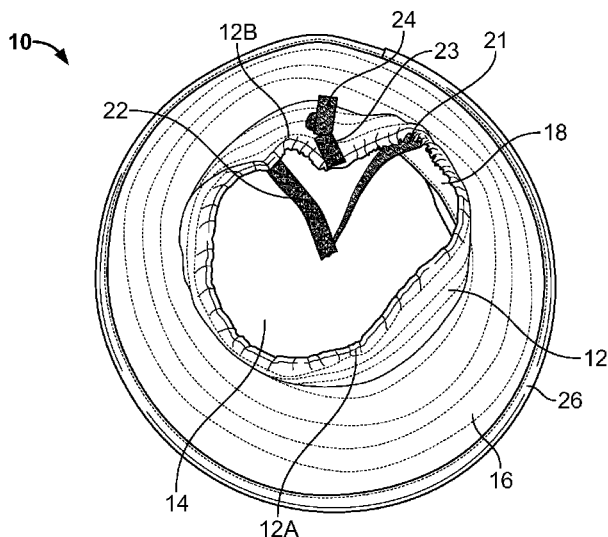
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(57) **ABSTRACT**

A portable brim can be securely attached to and operate with
various helmets such as bicycle, skateboarding, snow sport,
mountain/rock climbing, equestrian, and paddlesport helmets
as well as hard hats used in construction, utility maintenance,
material moving, dock loading, and airport baggage handling,
to give the wearer shade and protection from the sun. The
brim apparatus includes a center section having a size for
fitting about a circumference of the sports helmet and a visor
outwardly or radially extending from the center section. In
one brim apparatus the center section features a stop surface
that opposes an upper surface of the visor when the apparatus
is affixed to the headgear such that the visor is prohibited from
flipping upwards or sliding down or coming off during use.

42 Claims, 17 Drawing Sheets



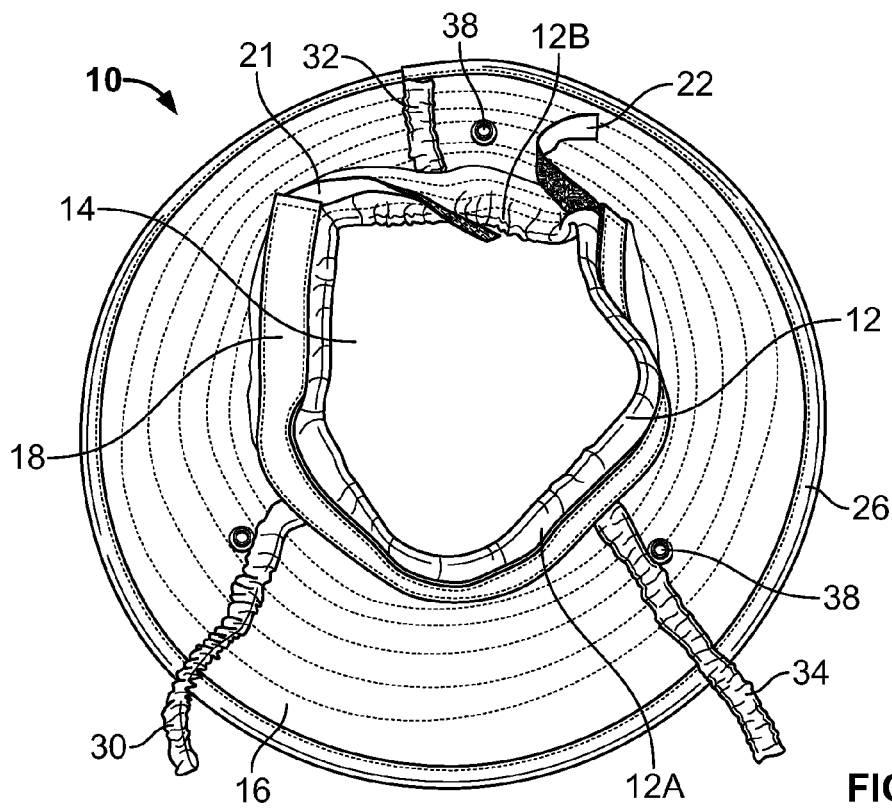
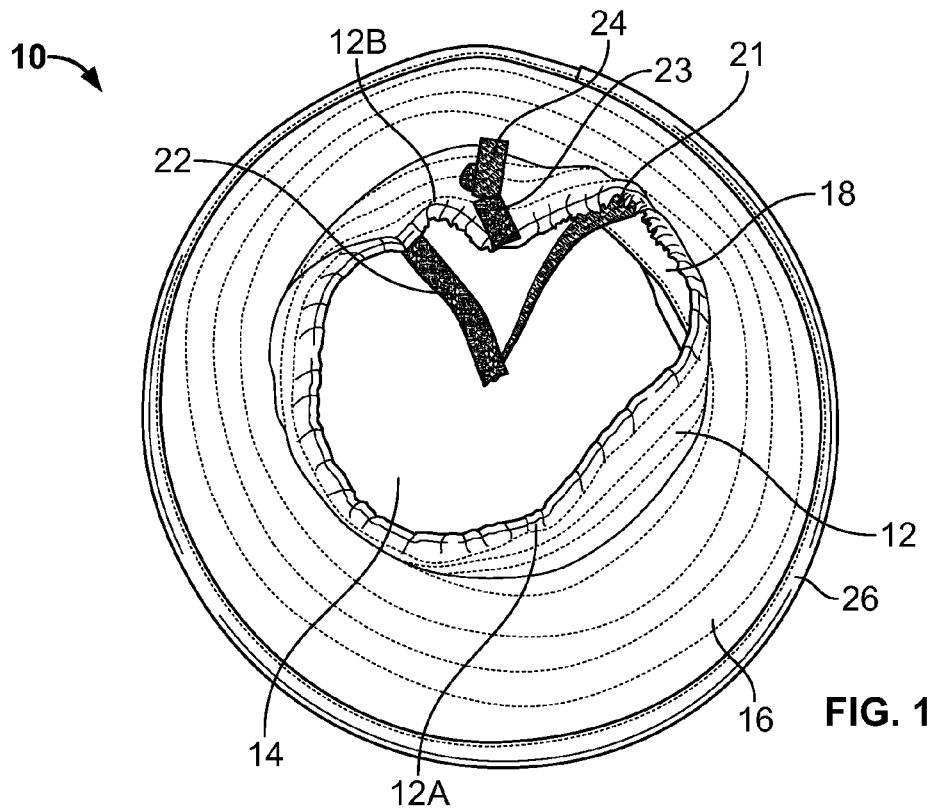
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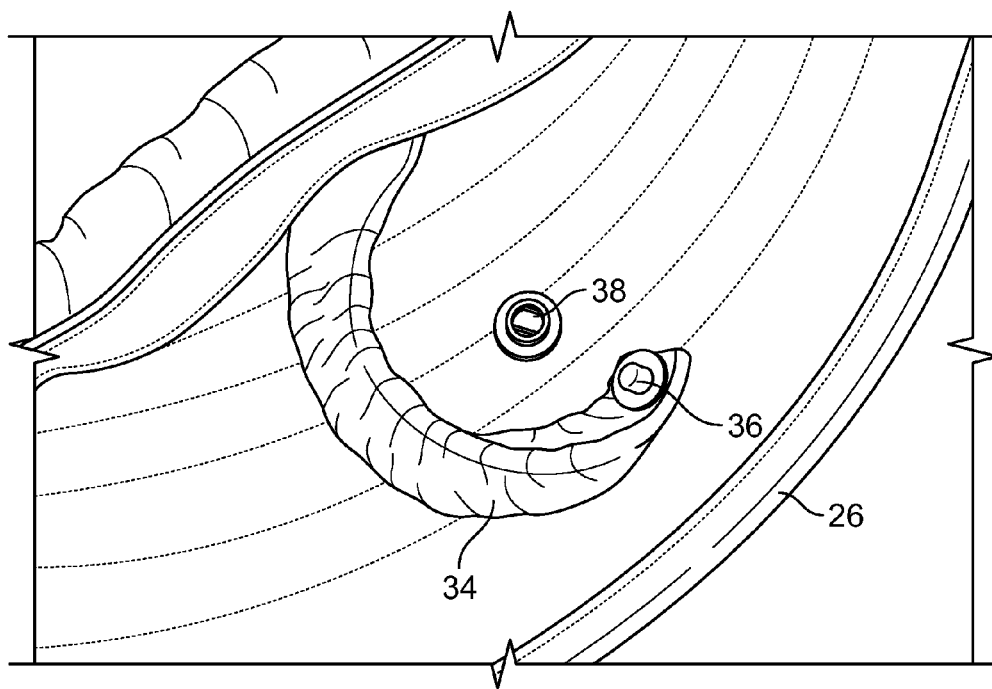


FIG. 3

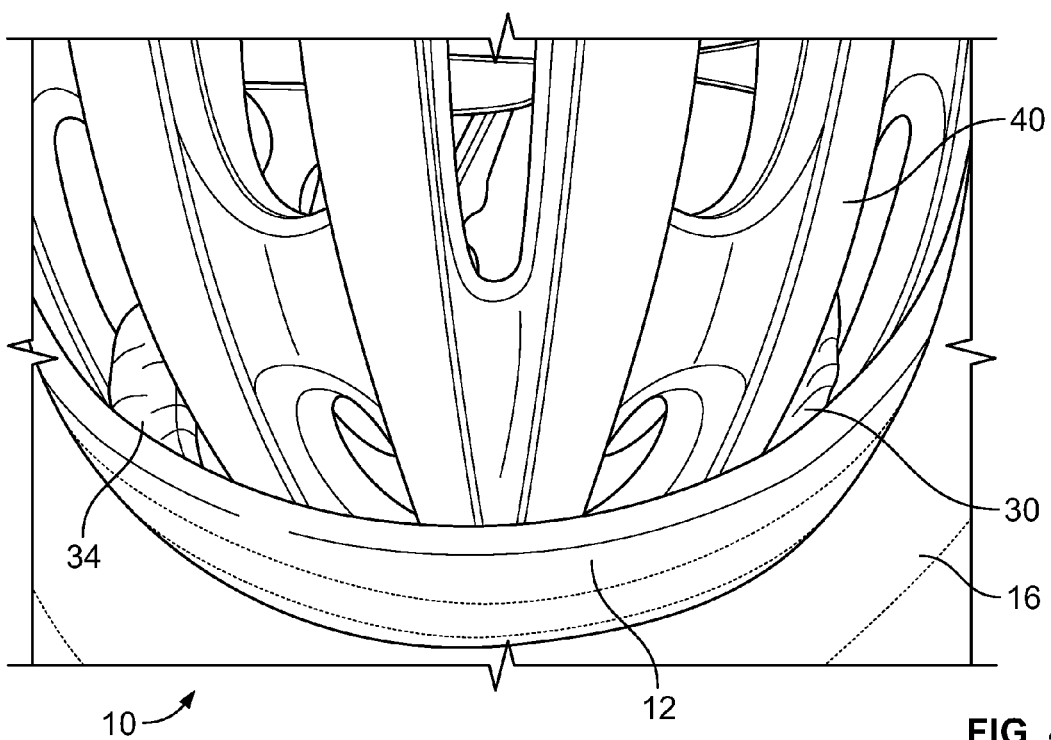


FIG. 4

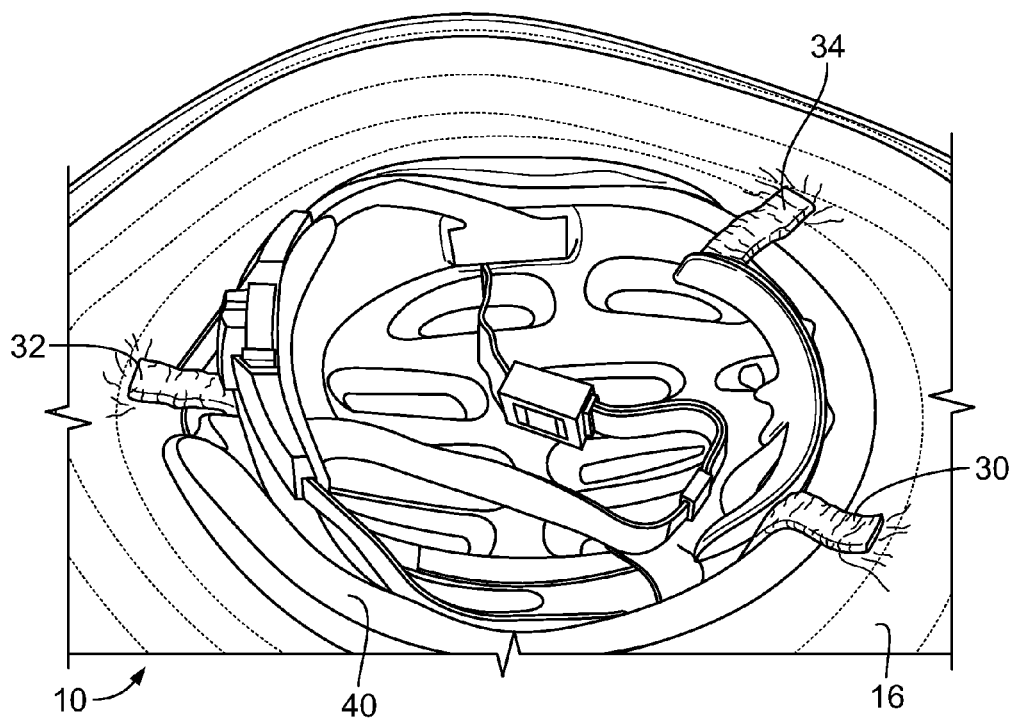


FIG. 5

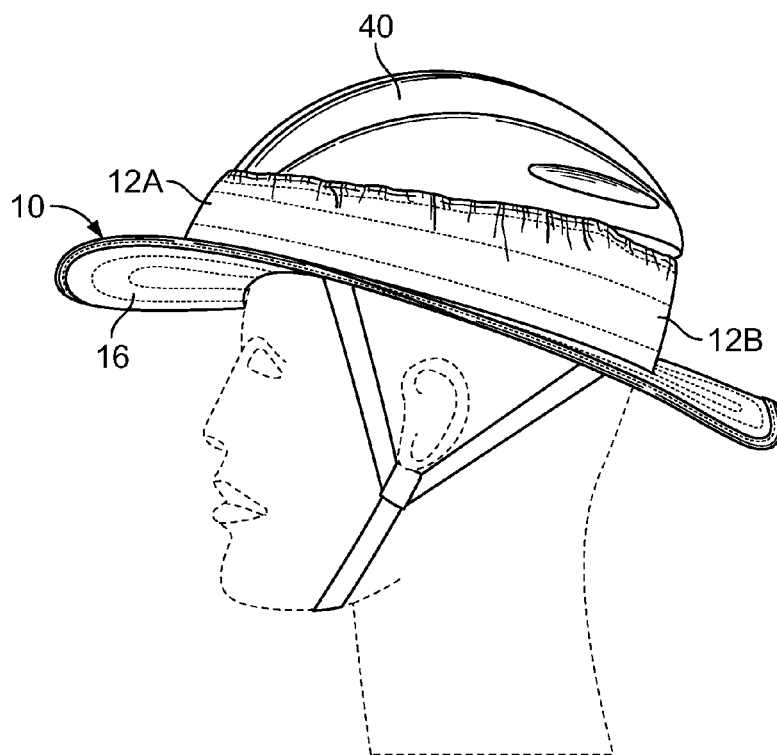
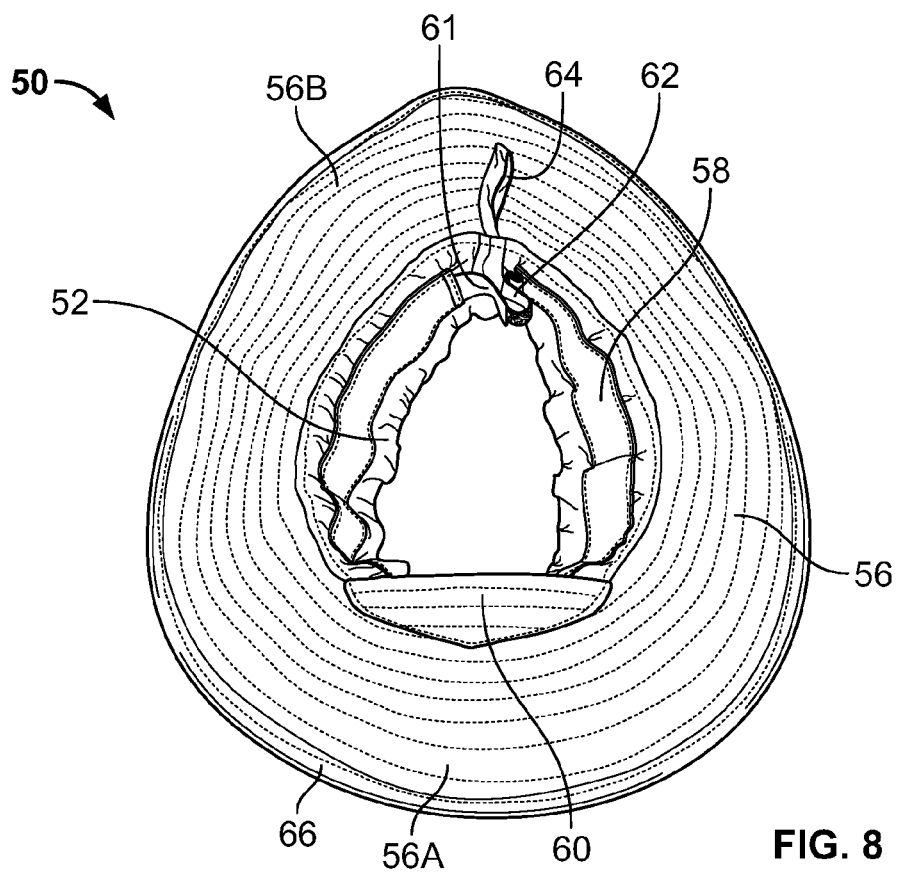
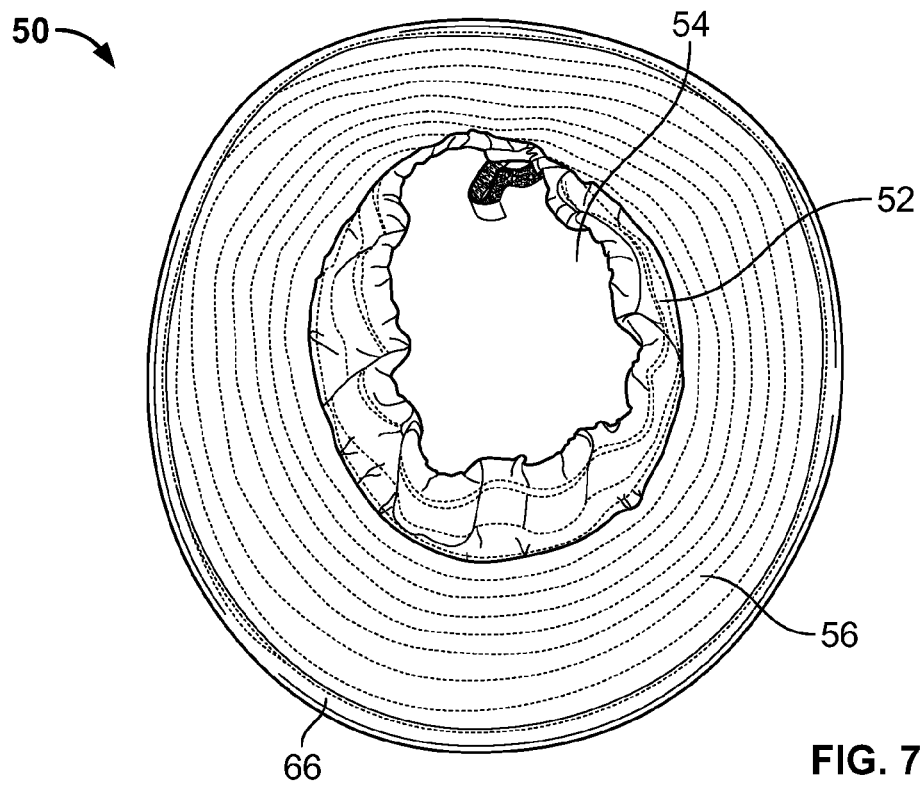


FIG. 6



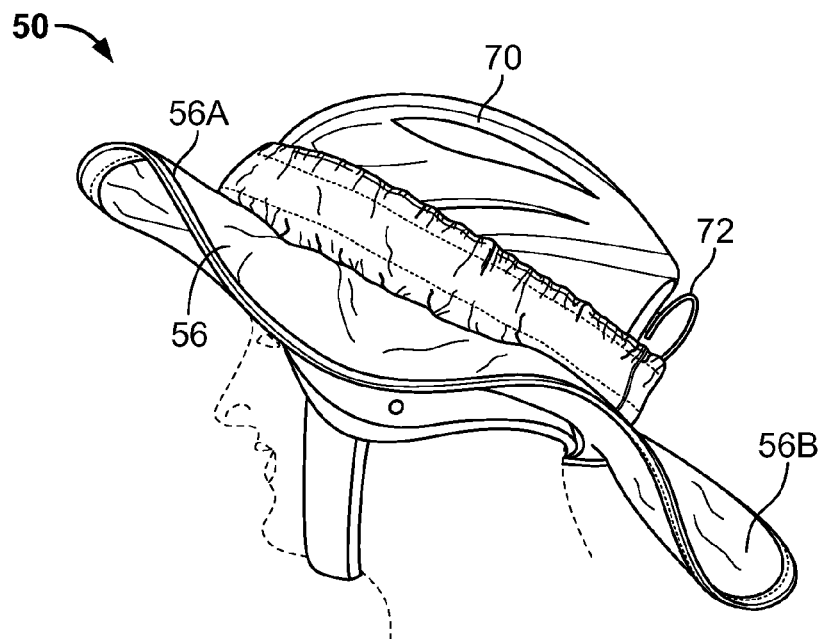


FIG. 9

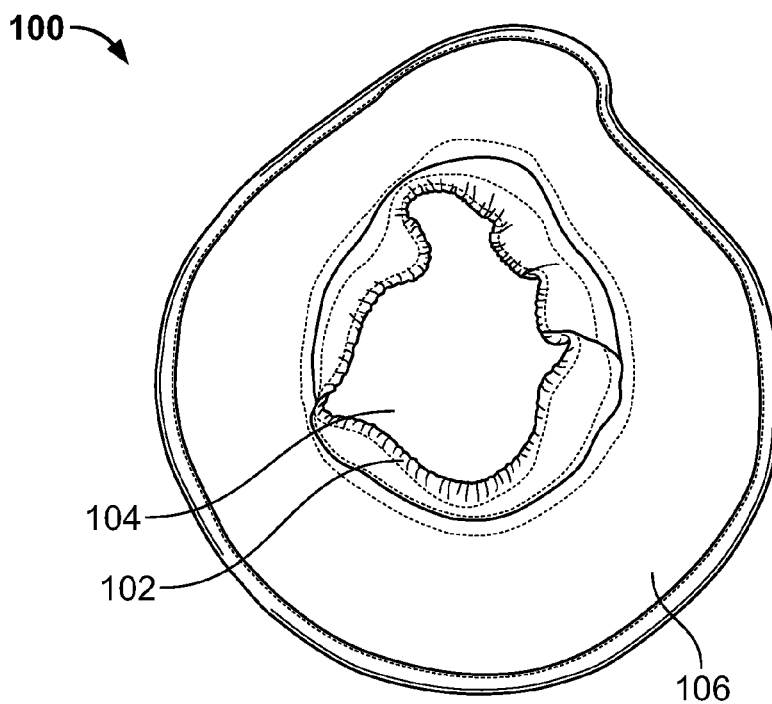
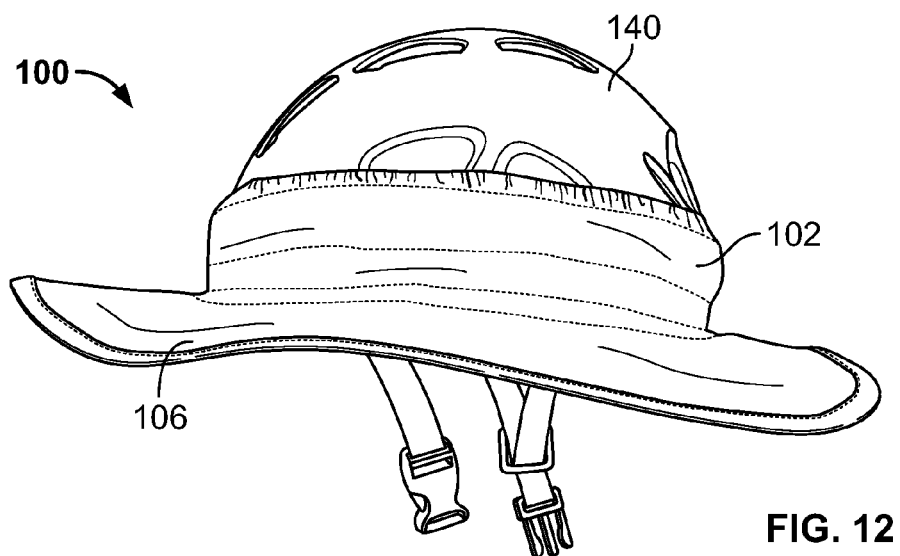
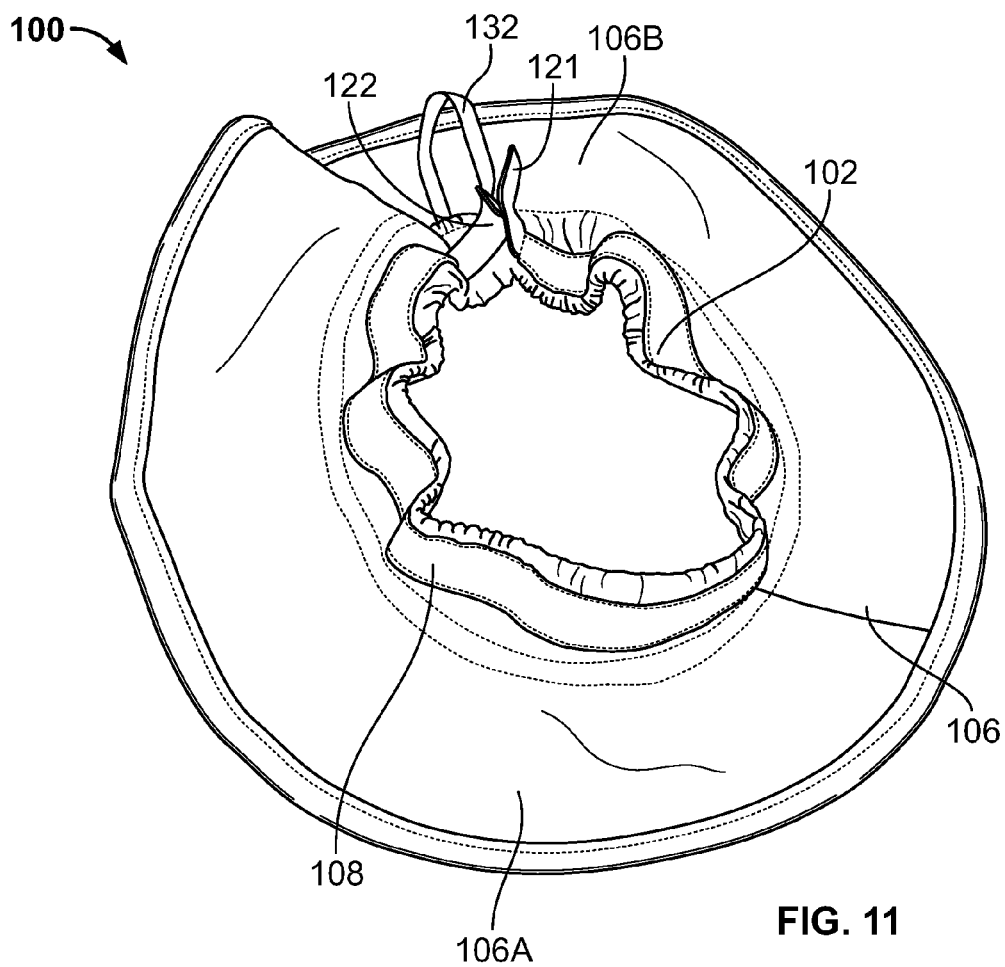
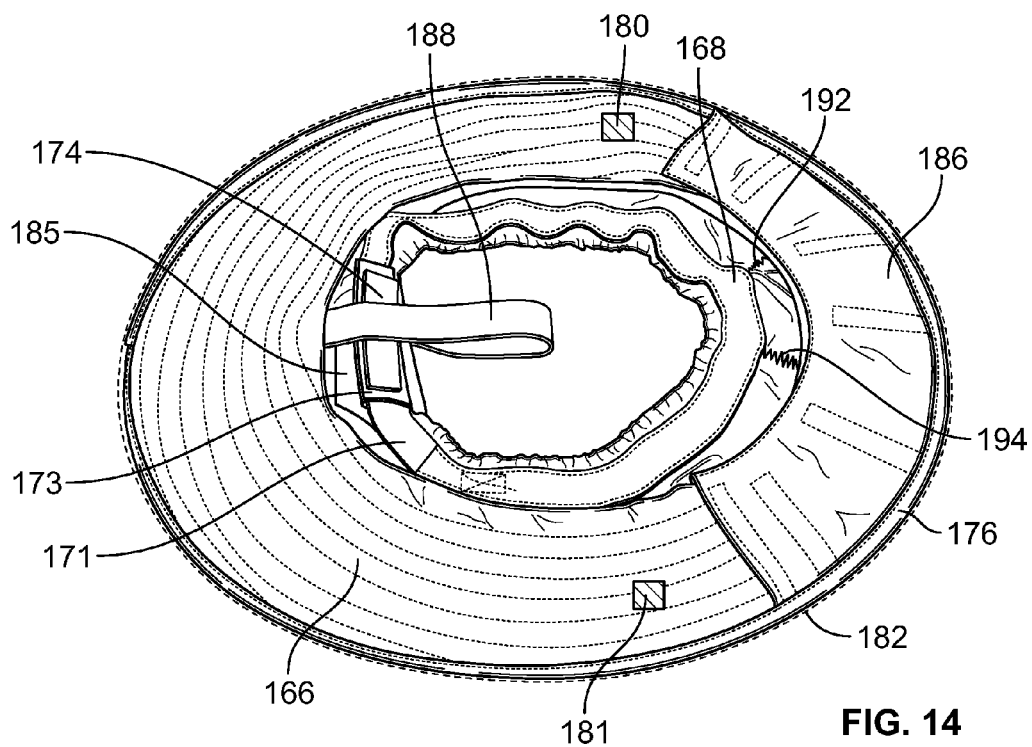
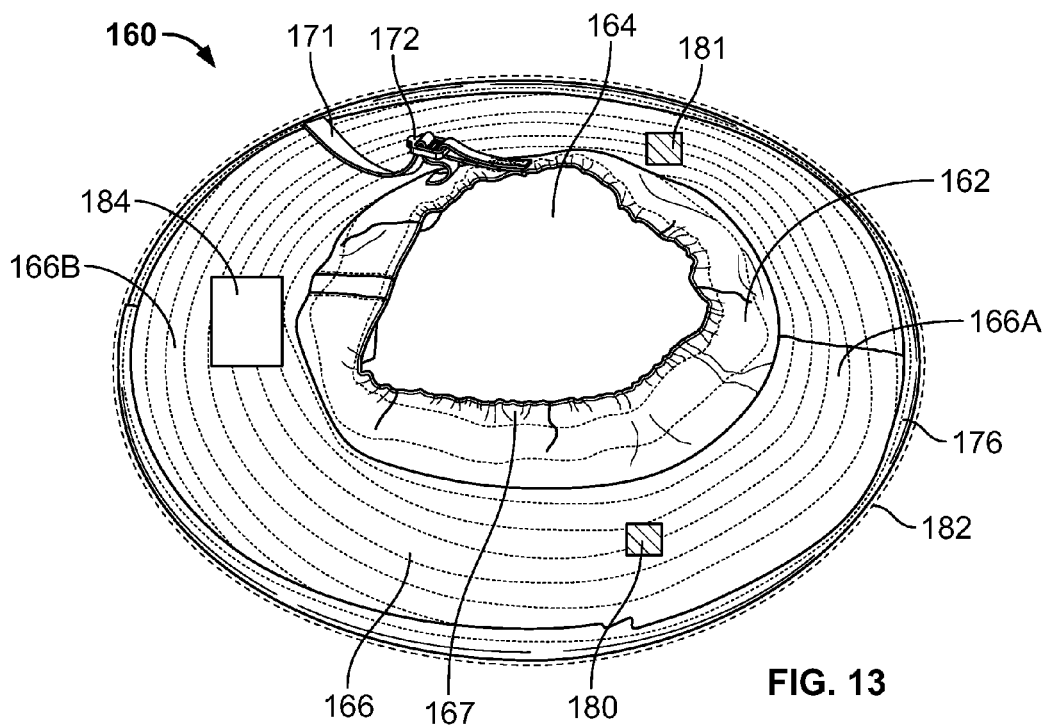


FIG. 10





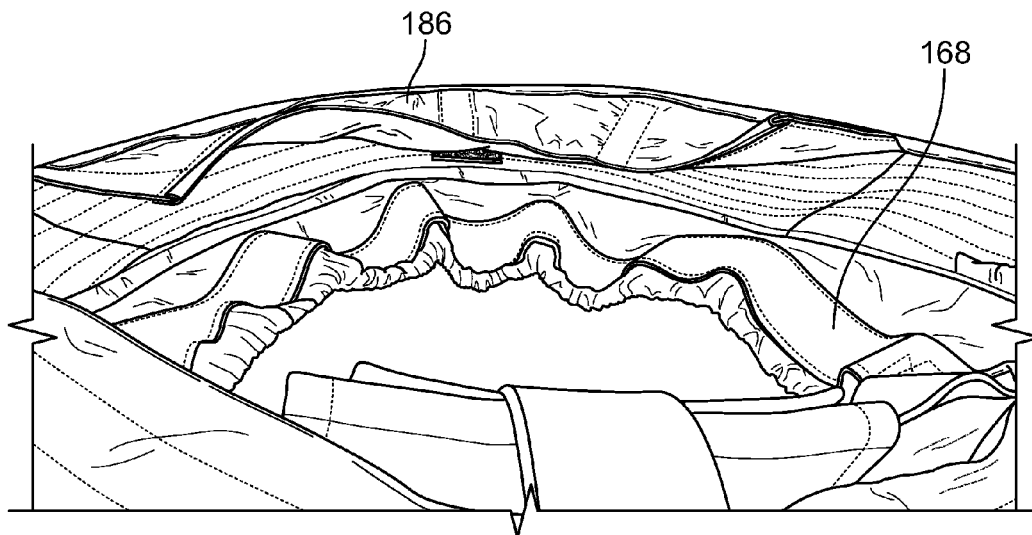


FIG. 15

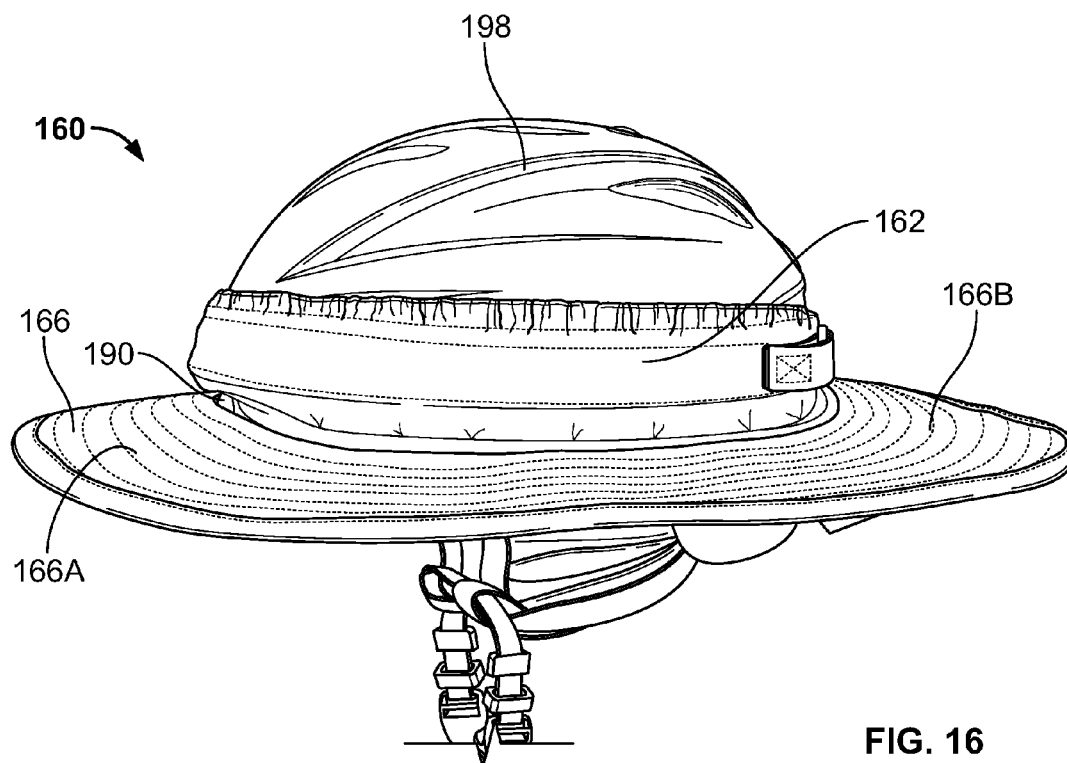


FIG. 16

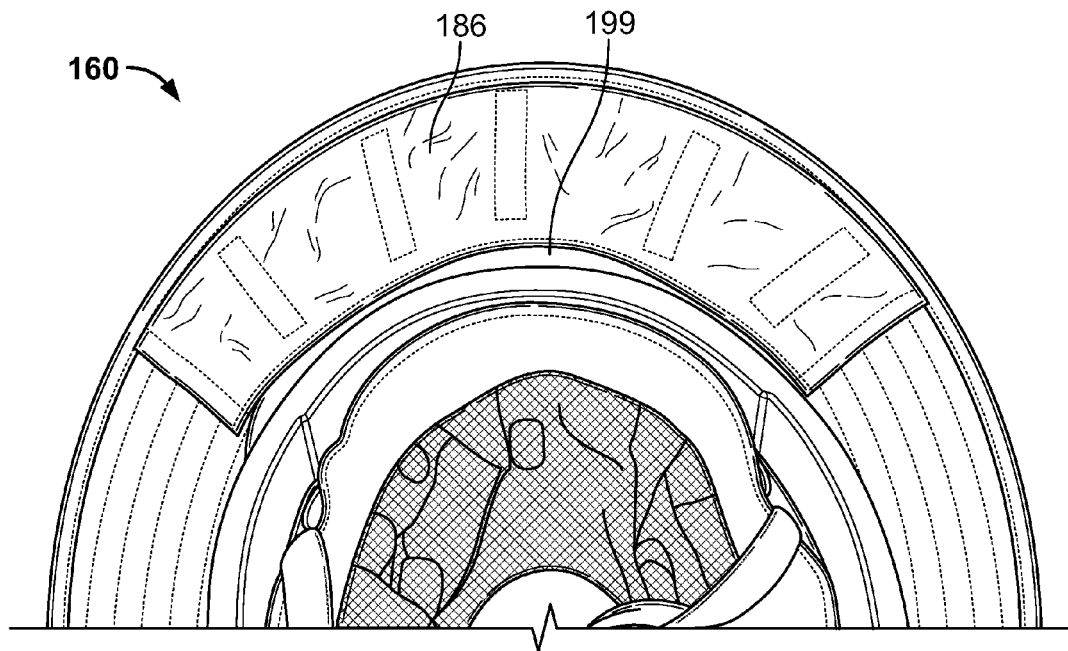


FIG. 17

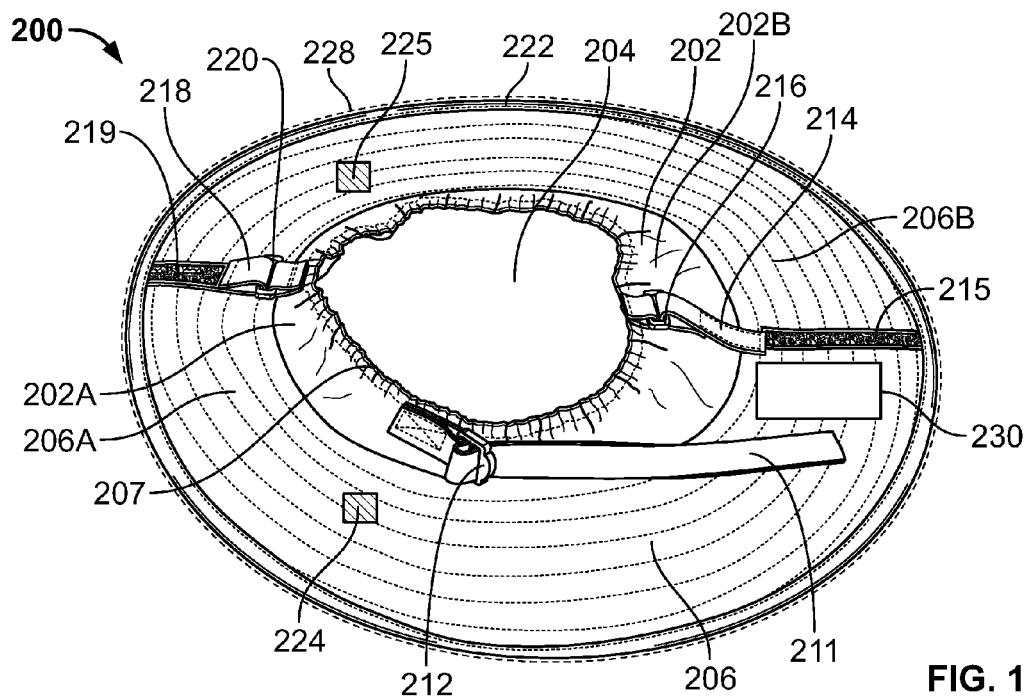


FIG. 18

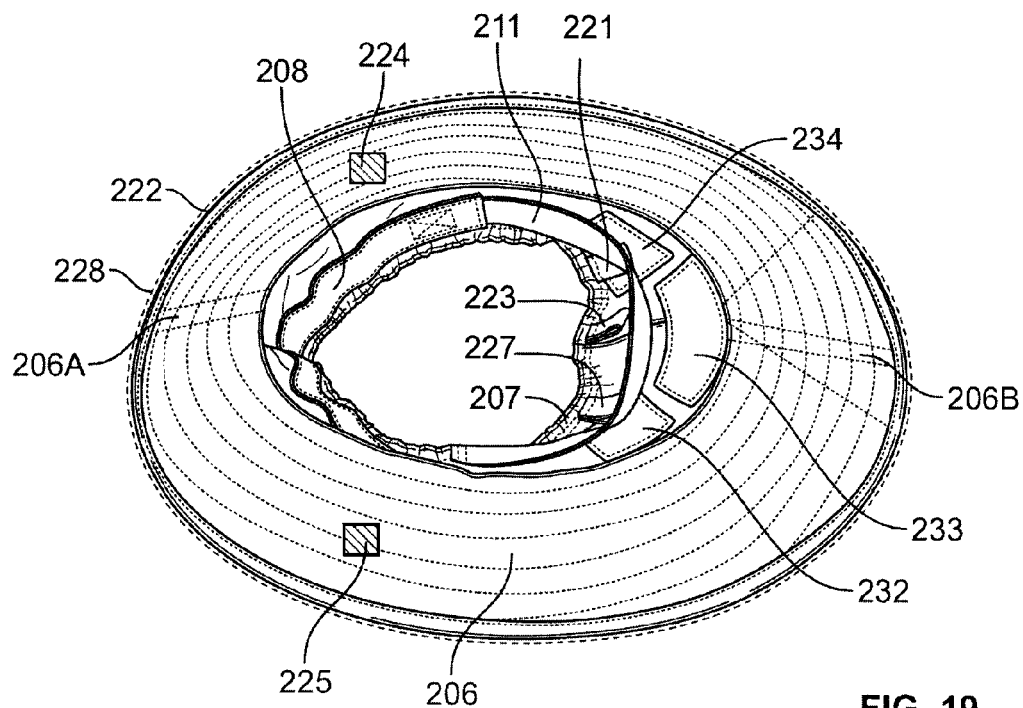


FIG. 19

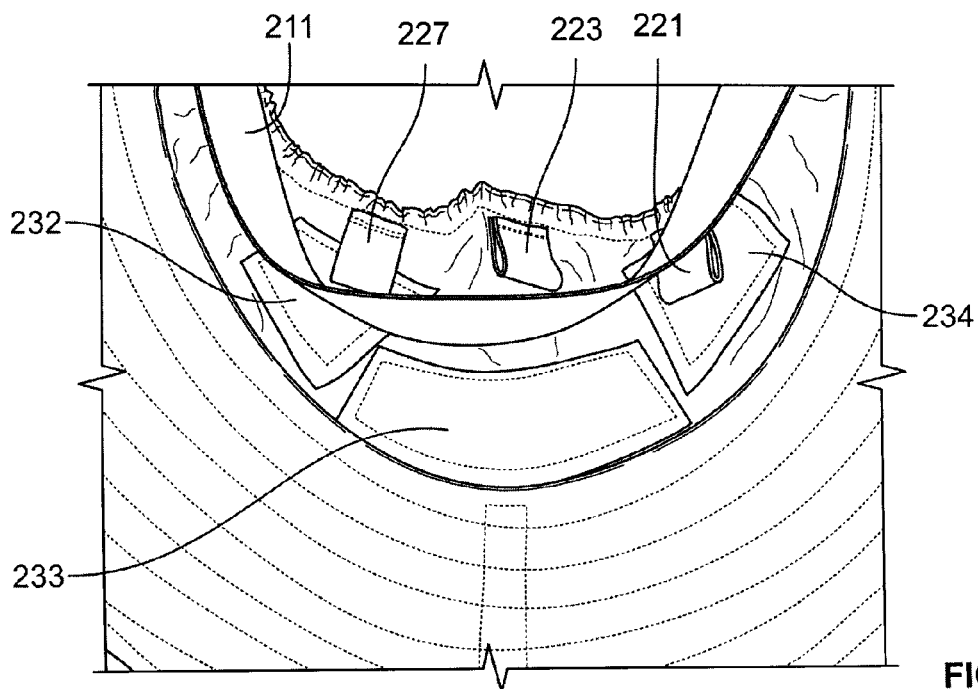
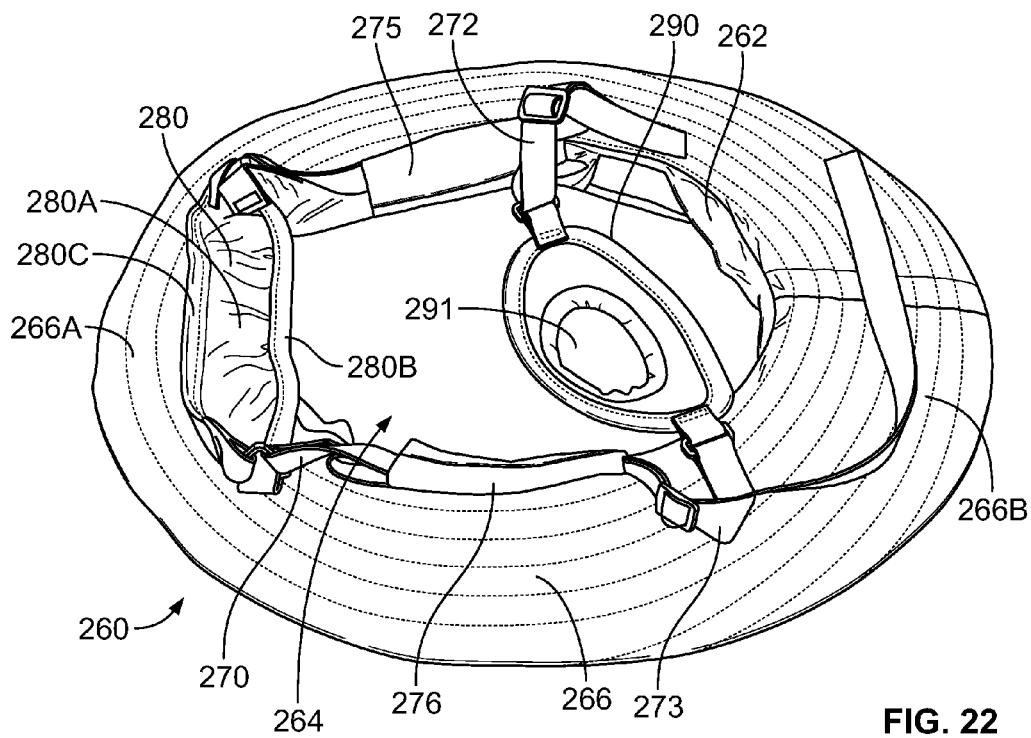
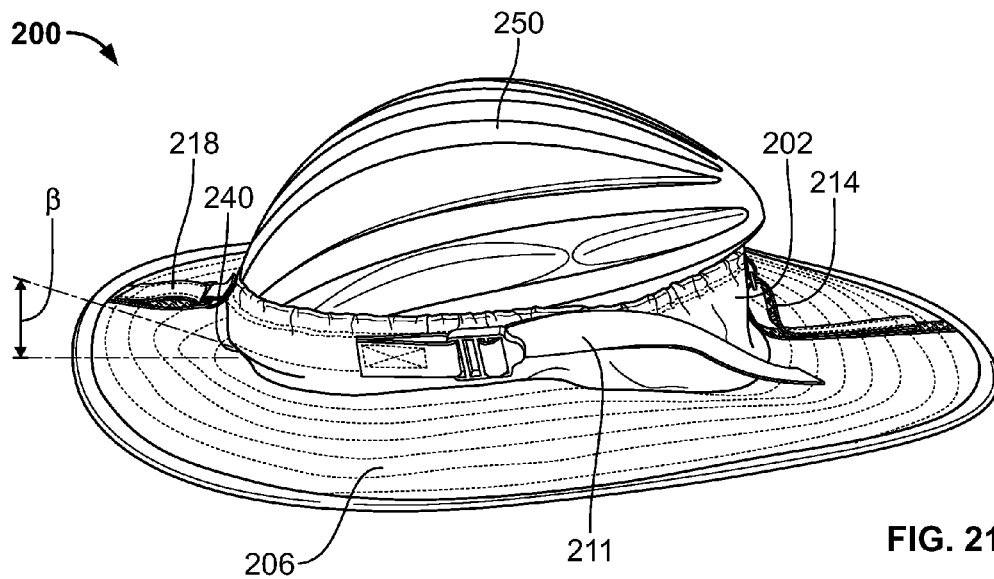


FIG. 20



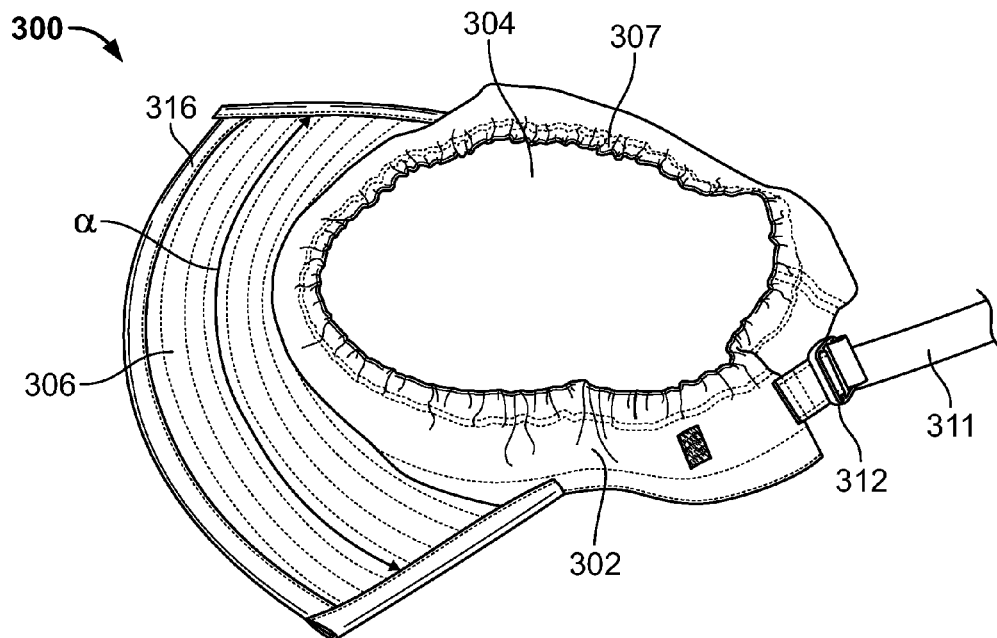


FIG. 23

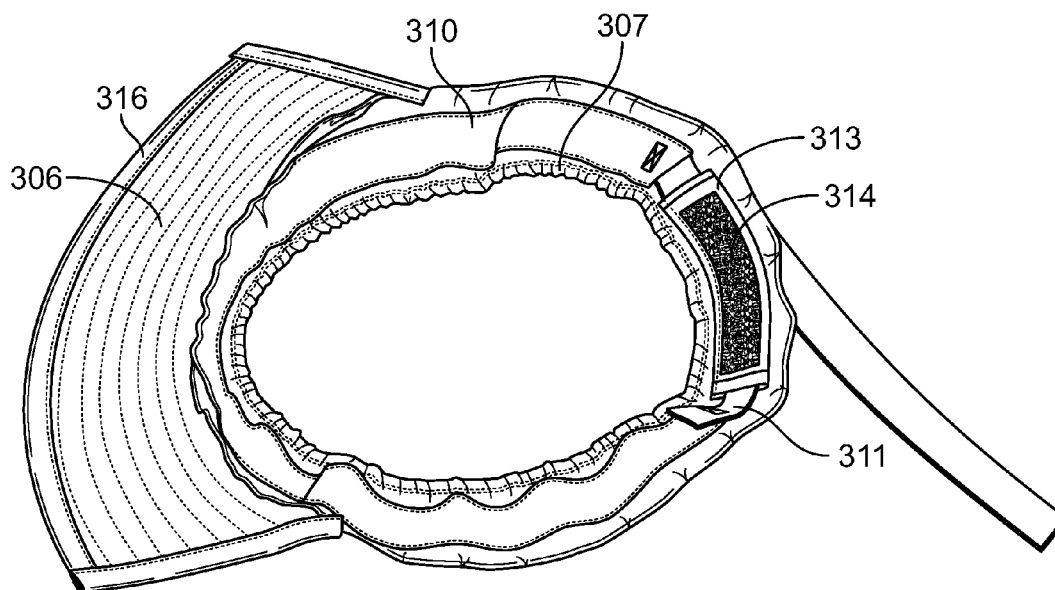


FIG. 24

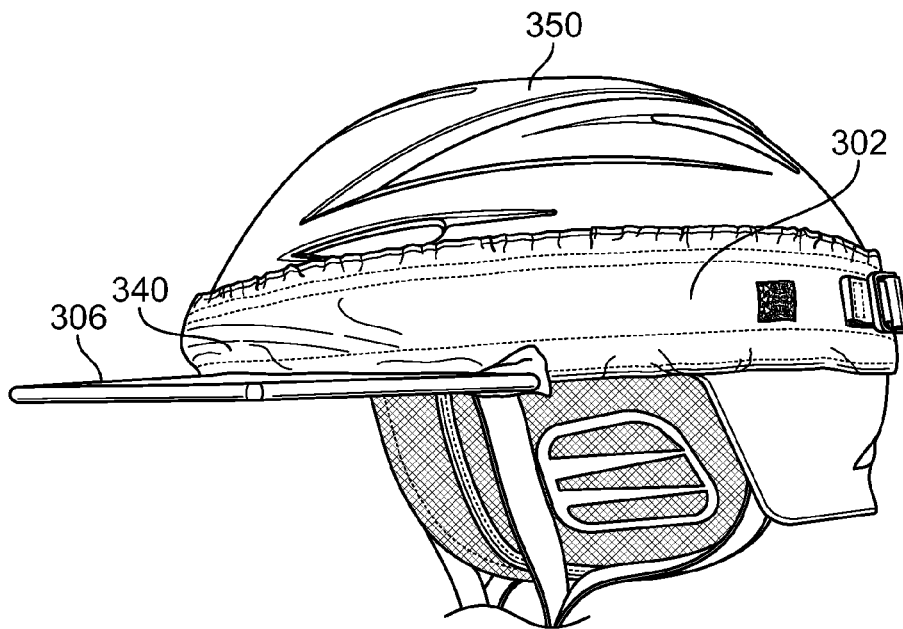


FIG. 25

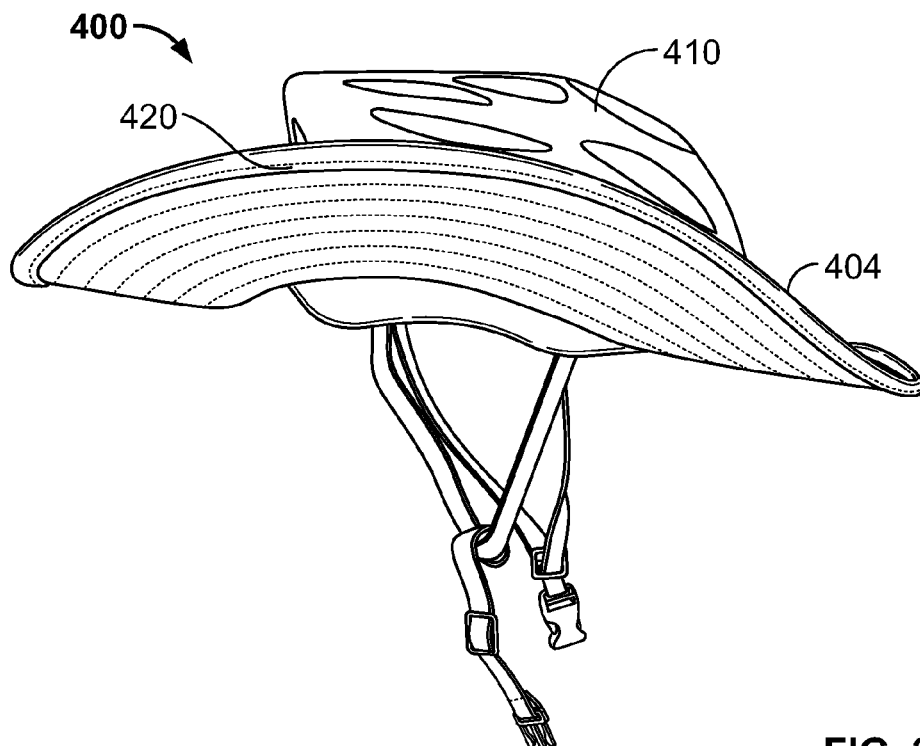
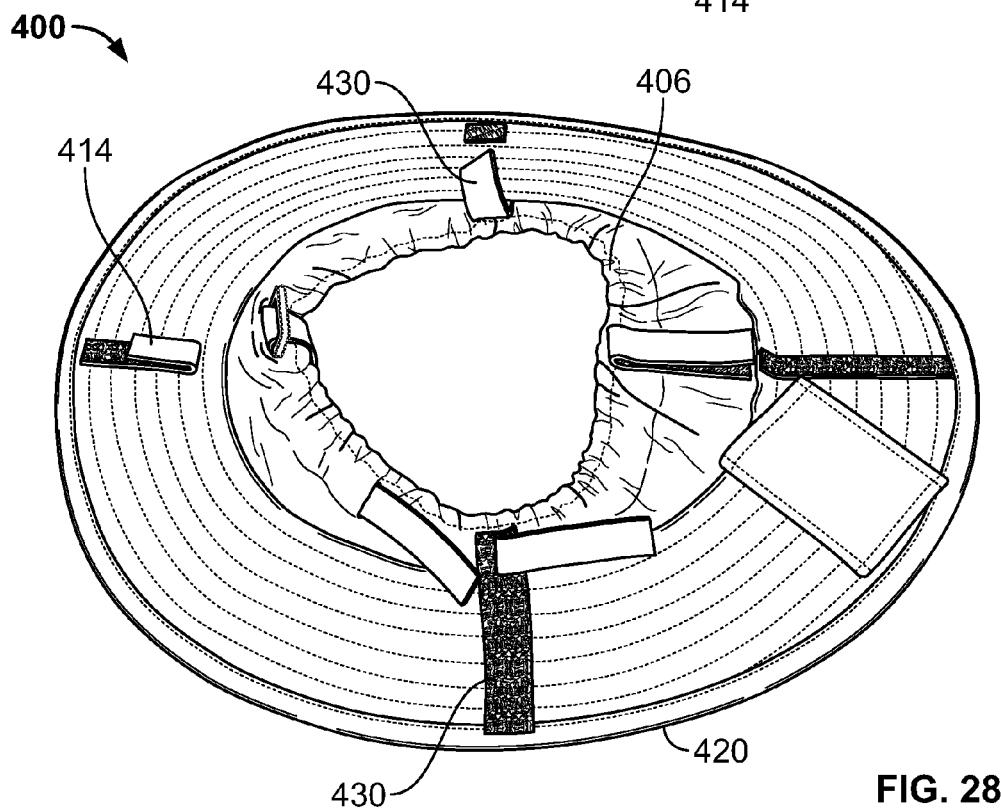
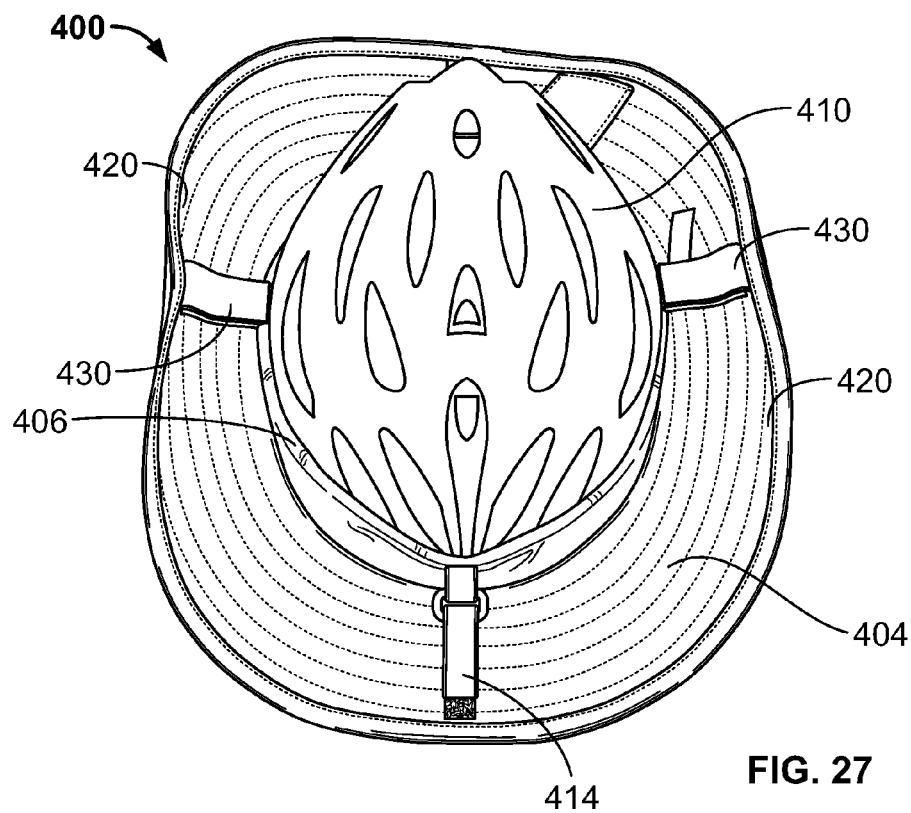


FIG. 26



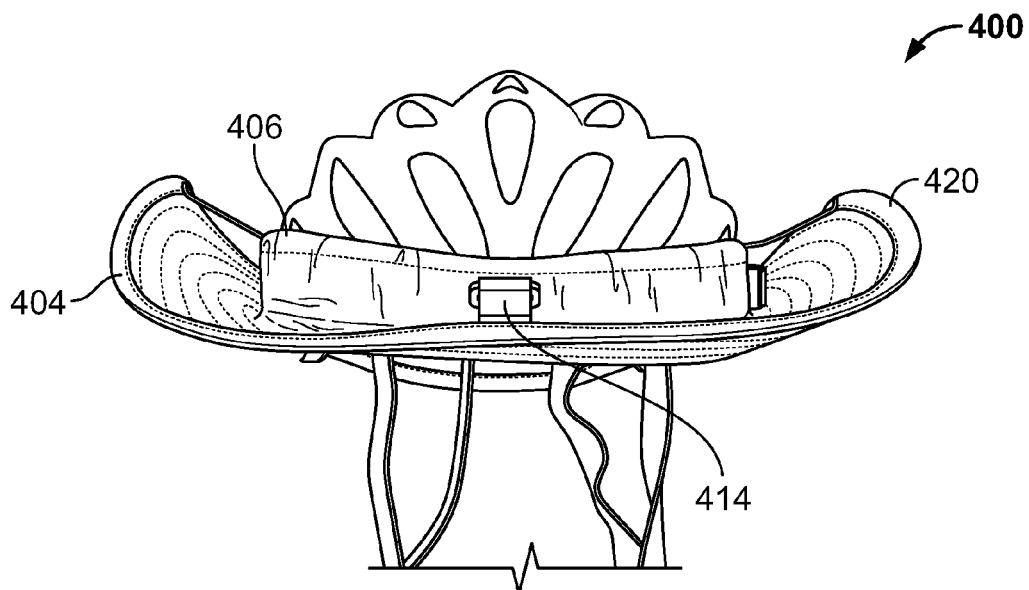


FIG. 29

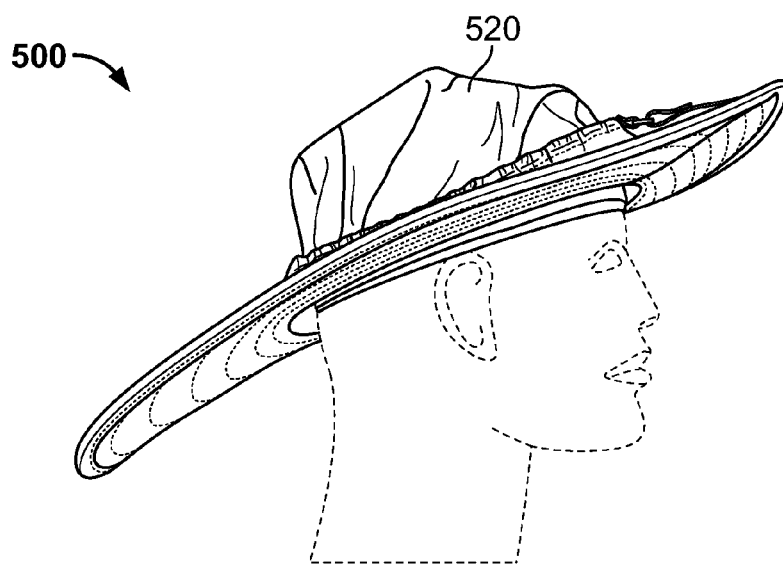


FIG. 30

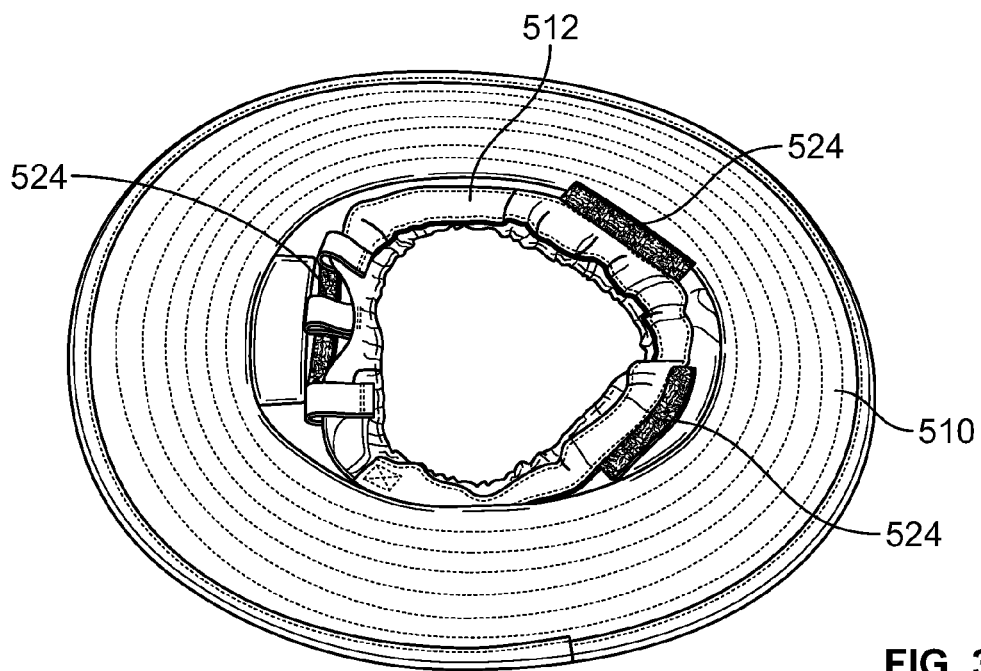


FIG. 31

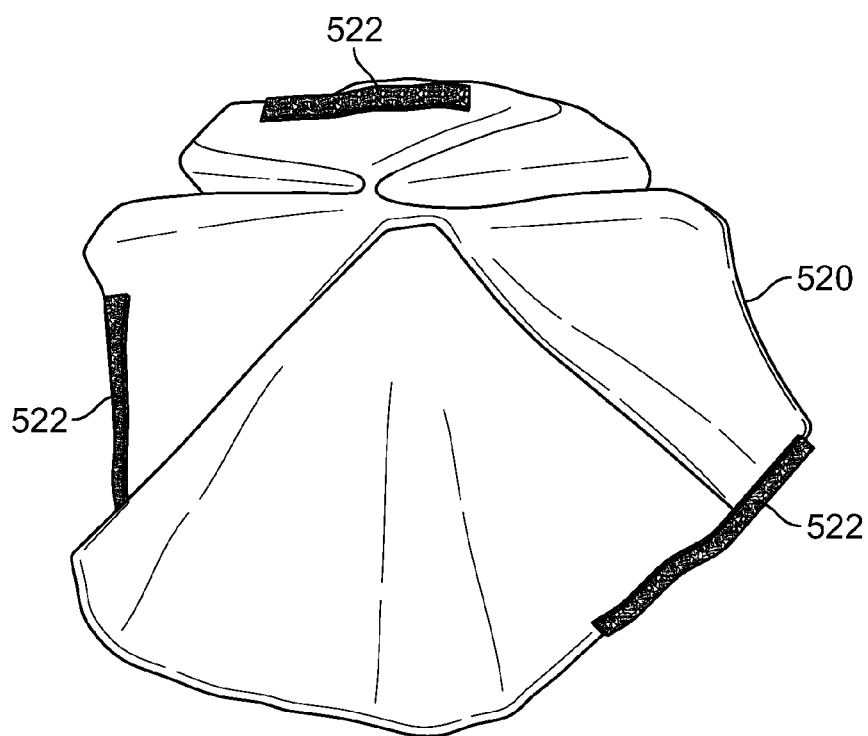


FIG. 32

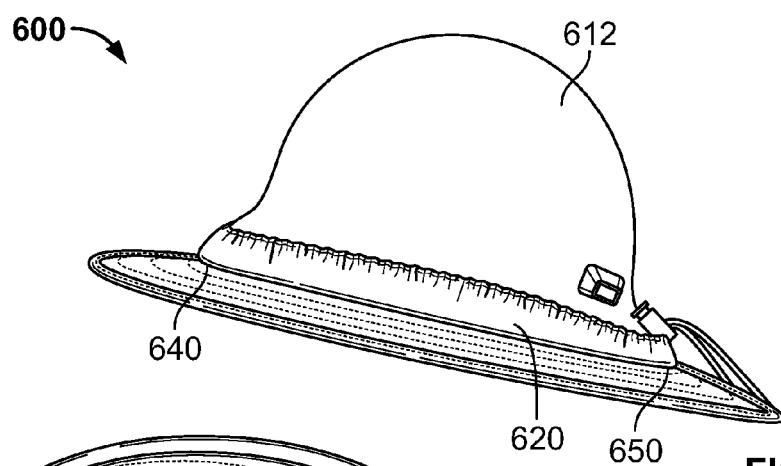


FIG. 33

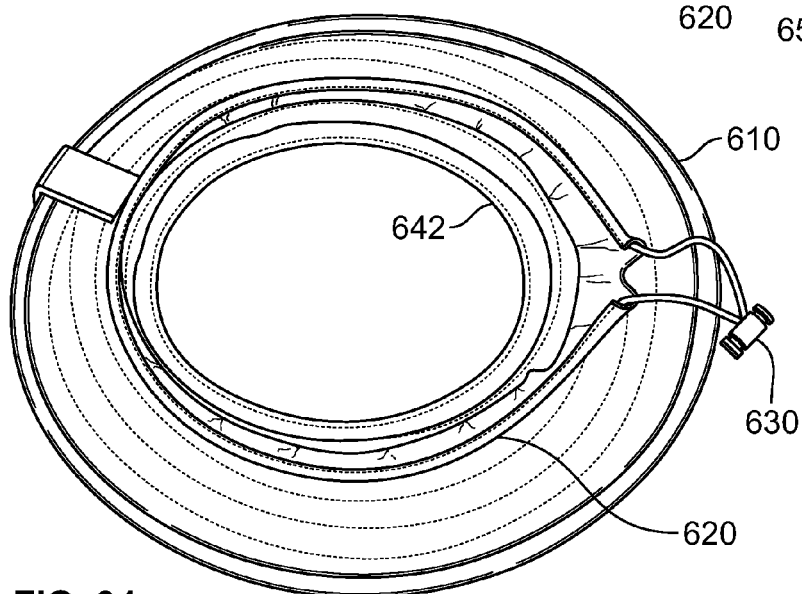


FIG. 34

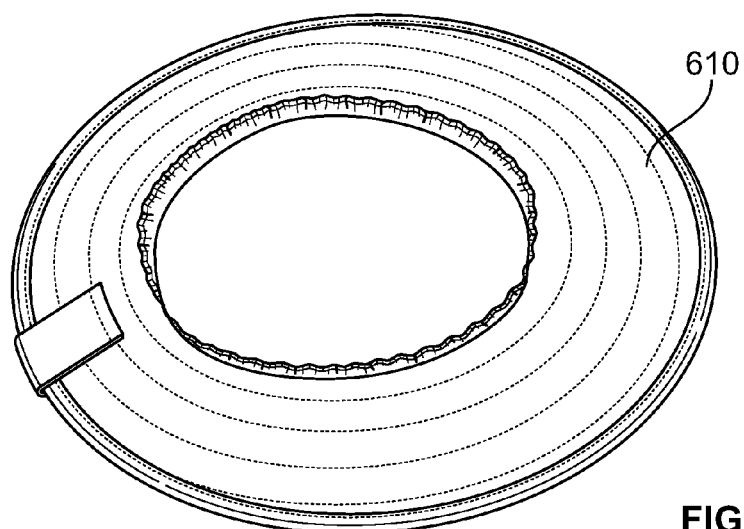


FIG. 35

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BRIM FOR ATTACHING TO HEADGEAR**CROSS REFERENCE TO RELATED APPLICATIONS**

The present invention claims priority to patent application Nos. 61/445,031 filed Feb. 21, 2011; and 61/480,004 filed Apr. 28, 2011.

FIELD OF THE INVENTION

The present invention relates to an apparatus for use on headgear, such as helmets and hard hats.

BACKGROUND OF THE INVENTION

Certain headgear, such as various sports helmets, typically do not include a brim or visor, and, if they do, they are relatively small visors extending from the front of the helmet only. Such helmets rarely include visors extending around the entire circumference of the helmet. Hard hats may include a very small, inflexible full brim but this brim does not provide wide sun protection.

Outdoor sports, such as bicycling, skateboarding, snow skiing, snowboarding, mountaineering, rock climbing, equestrian, and paddling—are often done in areas without trees or other fixtures to provide shade. Participants encounter significant sun exposure while performing their respective activities even when using conventional helmets. Likewise, workers using hard hats often perform their duties in sunny locations and encounter significant sun exposure.

Sport helmets generally consist of a hard material and/or shock-absorbing material, such as foam, to protect the head from injury. Some may have a built-in brim; however they do not offer full, flexible brims around the entire helmet for sun protection. Some helmets offer no visor or brim at all. These brim-less or bill-less helmets are particularly problematic for fitting with a brim since no easy and secure attachment means for the visor, namely the short bill protrusion on billed helmets, exists. Furthermore, elongated bicycle helmets taper rapidly and are very broad at the front, making it difficult to attach and securely hold an aftermarket brim or visor onto the helmet with current technology. As such, protection of one's head from injury can come at the expense of sun protection and lack of shade. Additionally, helmets without any visor expose the wearer's eyes to glare and can make it difficult to see. Lack of a visor or brim on helmets or hard hats contributes to significant discomfort during inclement weather. Without a visor or brim on the helmet, rain and snow can easily reach the wearer's eyes, sunglasses, or prescription lenses, impairing vision.

One alternative option is to wear a baseball hat under the helmet or hard hat to provide shade while performing the outdoor activity. However, this practice does not allow for ventilation or adjustability of the brim. Additionally, full brim coverage is not provided. Such practice is cumbersome, often results in an improper fit of the helmet, and allows sweat and moisture to contact the skin.

A number of shades, caps, and helmets seek to provide sun protection including, U.S. Pat. Nos. 1,030,173; 5,519,895; 5,727,250; 6,260,204; 6,374,423; 6,889,391; 6,966,074; and 7,406,721; and U.S. Patent Publication Nos. 2002/004946 and 2004/0010832, 2011/0167544 each of which is incorporated by reference in its entirety. All patents and patent applications and non-patent publications recited herein are incorporated by reference in their entirety.

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A brim apparatus for operating with sports headgear is often subjected to strong forces. A snowboarder or cyclist, for example, travels at great speeds and consequently subjects his helmet and brim to large winds which urge the brim to deflect or worse, flip up, thwarting a purpose of the brim, namely to block the sun.

Accordingly, there is a need for an apparatus that addresses the above mentioned challenges and that can be attached to a helmet and provide the wearer with shade and protection from the sun, thereby reducing the risk of skin cancer. There is a need for an apparatus that can attach to, and operate with, headgear to provide the wearer with shade and protection from the sun despite the speed and conditions arising from the environment or sport.

SUMMARY OF THE INVENTION

One embodiment of the present invention is an apparatus that creates shade for the wearer when using a variety of headgear.

One embodiment of the invention comprises a portable brim that can be attached to, and operate with, headgear, including, but not limited to helmets, such as bicycle, skateboarding, snow sport, mountain/rock climbing, equestrian, and paddlesport helmets.

Another embodiment of the invention comprises a portable brim that can attach to, and operate with, headgear including but not limited to hard hats used in construction, utility maintenance, material moving, dock loading, and airport baggage handling, to give the wearer shade and protection from the sun. Another embodiment of the invention is a brim or visor that can be easily attached to and removed from the helmet or hard hat, without any modification to the helmet or hard hat itself.

Another embodiment of the invention is an apparatus for attaching to a sports helmet including a center section having an adjustable size for fitting about a circumference of the sports helmet and a visor radially extending from the center section. In one embodiment the center section is adapted to form a stop surface opposing an upper surface of the visor when the apparatus is affixed to the sports helmet such that the stop surface prohibits the visor from upward rotation.

In another embodiment of the invention a brim apparatus for attaching to headgear comprises a center section having a size for detachably fitting about a circumference of the headgear and a visor radially extending from the center section. The center section may have an adjustable or fixed size. The headgear type may vary and in one embodiment is a hard hat. In another embodiment the brim apparatus is configured for use with headgear such as a sports helmet including without limitation bill-less or blunt sports helmets. Bill-less helmets also include helmets in which the bill has been removed or detached.

In another embodiment the apparatus comprises a crown or cover detachably connected to the top of the center section so as to cover the top of the headgear or the wearer's head when the headgear is not worn. In this capacity, the apparatus serves dual purposes as a brim for a helmet and as a hat for the wearer's head.

In another embodiment the apparatus comprises a center section, a visor extending radially therefrom, and at least one tilt angle adjustment feature for adjusting the angle that the visor makes with the center section. In one embodiment, the tilt angle adjustment feature is situated to adjust the frontal region of the visor. However, tilt angle adjustment features may be disposed on the side, rear, and other locations of the center section to provide a tilt to the visor relative to the center

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section. Examples of tilt angle adjustment features include tethers, straps, rings, loop and hook fasteners, clips, Velcro straps, etc. In one embodiment, the tilt angle adjustment feature comprises a ring and Velcro.

In another embodiment the apparatus comprises a visor having lateral regions which are adjustable to curve upwards. In one embodiment, the lateral regions of the visor are curved upwards so as to resemble a cowboy hat.

In another embodiment the apparatus comprises a center section and a visor radially extending therefrom, wherein the center section is longer in the rear than in the front. The center section is adapted to snugly fit on the wearer's head. A crown may be secured to the top of the center section. In one embodiment, the crown is detachable.

In another embodiment the apparatus comprises a center section and a visor extending radially therefrom, and wherein the center section is adapted to snugly fit to headwear, such as, without limitation, baseball hats.

The description, objects and advantages of the present invention will become apparent from the detailed description to follow, together with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top view of a brim apparatus according to a preferred embodiment of the invention;

FIG. 2 is a bottom view of the brim apparatus of FIG. 1;

FIG. 3 is a partial perspective view of the brim apparatus of FIG. 1;

FIG. 4 is a partial perspective environmental view of the apparatus of FIG. 1;

FIG. 5 is another perspective environmental view of the brim apparatus of FIG. 1;

FIG. 6 is another perspective environmental view of the brim apparatus of FIG. 1;

FIG. 7 is a top view of a brim apparatus according to another preferred embodiment of the invention;

FIG. 8 is a bottom view of the brim apparatus of FIG. 7;

FIG. 9 is a perspective environmental view of the brim apparatus of FIG. 7;

FIG. 10 is a top view of a brim apparatus according to another preferred embodiment of the invention;

FIG. 11 is a bottom view of the brim apparatus of FIG. 10;

FIG. 12 is a perspective environmental view of the brim apparatus of FIG. 10;

FIG. 13 is a top view of a brim apparatus according to another preferred embodiment of the invention;

FIG. 14 is a bottom view of the brim apparatus of FIG. 13;

FIG. 15 is a partial perspective view of the brim apparatus of FIG. 13;

FIG. 16 is a perspective environmental view of the brim apparatus of FIG. 13;

FIG. 17 is a partial perspective environmental view of the brim apparatus of FIG. 13;

FIG. 18 is a top view of a brim apparatus according to another preferred embodiment of the invention;

FIG. 19 is a bottom view of the brim apparatus of FIG. 18;

FIG. 20 is a partial perspective view of the brim apparatus of FIG. 18;

FIG. 21 is a perspective environmental view of the brim apparatus of FIG. 18;

FIG. 22 is a bottom view of a brim apparatus according to another preferred embodiment of the invention;

FIG. 23 is a top view of a partial brim apparatus according to another preferred embodiment of the invention;

FIG. 24 is a bottom view of a the partial brim apparatus of FIG. 23;

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FIG. 25 is a perspective environmental view of the partial brim apparatus of FIG. 23.

FIG. 26 is a side view of a brim apparatus according to another preferred embodiment of the invention engaged to a bike helmet;

FIG. 27 is a top view of the brim apparatus of FIG. 26;

FIG. 28 is a top view of the brim apparatus of FIG. 26 shown in an undeployed configuration;

FIG. 29 is a front view of the brim apparatus of FIG. 26;

FIG. 30 is a side view of a brim apparatus including a crown member according to another preferred embodiment of the invention;

FIG. 31 is a bottom view of the brim apparatus of FIG. 30 shown without the crown member;

FIG. 32 is a top view of the crown member of FIG. 30 shown in an undeployed configuration;

FIG. 33 is a side view of a brim apparatus secured to a hard hat according to another preferred embodiment of the invention;

FIG. 34 is a top view of the brim apparatus of FIG. 33;

FIG. 35 is a bottom view of the brim apparatus of FIG. 33.

DETAILED DESCRIPTION

Before the present invention is described in detail, it is to be understood that this invention is not limited to particular variations set forth herein as various changes or modifications may be made to the invention described and equivalents may be substituted without departing from the spirit and scope of the invention. As will be apparent to those of skill in the art upon reading this disclosure, each of the individual embodiments described and illustrated herein has discrete components and features which may be readily separated from or combined with the features of any of the other several embodiments without departing from the scope or spirit of the present invention. In addition, many modifications may be made to adapt a particular situation, material, composition of matter, process, process act(s) or step(s) to the objective(s), spirit or scope of the present invention. All such modifications are intended to be within the scope of the claims made herein.

Methods recited herein may be carried out in any order of the recited events which is logically possible, as well as the recited order of events. Furthermore, where a range of values is provided, it is understood that every intervening value, between the upper and lower limit of that range and any other stated or intervening value in that stated range is encompassed within the invention. Also, it is contemplated that any optional feature of the inventive variations described may be set forth and claimed independently, or in combination with any one or more of the features described herein.

Reference to a singular item, includes the possibility that there are plural of the same items present. More specifically, as used herein and in the appended claims, the singular forms "a," "an," "said" and "the" include plural referents unless the context clearly dictates otherwise. It is further noted that the claims may be drafted to exclude any optional element. As such, this statement is intended to serve as antecedent basis for use of such exclusive terminology as "solely," "only" and the like in connection with the recitation of claim elements, or use of a "negative" limitation. It is also to be appreciated that unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs.

A brim apparatus for use on a bicycle helmet according to a preferred embodiment of the invention is illustrated in FIGS. 1-6, and shown generally at reference numeral 10. As

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shown in FIGS. 1 and 2, the apparatus 10 comprises a substantially oval flexible center section 12 defining an opening 14 sized to fit over a bicycle helmet 40. The opening is shown having a substantially oval shape. However, the shape may vary and may take other shapes such as a circular or another shape to fit a helmet.

The brim apparatus is shown having a visor 16. In the embodiment shown in FIGS. 1-6, the visor has a substantially oval shape. The visor 16 extends outwardly from the center section 12. The visor is shown spanning the entire circumference of the helmet, namely, 360 degrees, however, the arc angle may vary. In another embodiment, described herein, the visor span angle ranges from 0 to 180 degrees, and more preferably from 45 to 135 degrees, and more preferably from 80 to 100 degrees. The visor may radiate outwardly and may be directed at an angle from the center section slightly downwardly, or upwardly. In one embodiment, as will be discussed herein, the visor tilt angle may be adjusted to suit a user or increase his visibility.

The apparatus 10 can be made of cotton, or other suitable material such as nylon, polyester, cotton/polyester blends or water resistant material such as GORE-TEX or other membrane or treated fabric. The apparatus 10 is preferably made of a washable material, so that it can be washed after use. The visor 16 can be made of a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material. For example, a fabric may cover or interface with one or more ribs or stiffeners, forming the desired shape such as visor shape 16. However, other shapes may be formed. Examples of stiffeners include without limitation tensioned rod, flexible plastic tubing, and spring steel.

The center section 12 is preferably elastic and has a section of anti-slip material 18 attached to the center section 12 for facilitating frictional engagement with helmet 40. The center section 12 can include means for adjusting the diameter of the opening 14 to accommodate helmets of varying size. As shown in FIGS. 1 and 2, the adjustment means can comprise two straps 21, 22 attached to the center section 12. One strap 21 has hook fasteners, while the other strap 22 has loop fasteners (or vice versa) for complementary engagement. As such, the diameter of the center section opening 14 can be adjusted by the user by varying the point of connection of the two straps 21, 22. Alternatively, the adjustment means can be a sliding strap or elastic.

The center section 12 has a front portion 12A and a rear portion 12B. Preferably, the rear portion 12B is greater in length than the front portion 12A to account for the relatively high positioning of bicycle helmets. The apparatus 10 can include adjustment means for adjusting the length that the rear portion 12B of the center section 12 drops down from the helmet 40. As shown in FIG. 1, the adjustment means can comprise a strap 23 attached to the rear portion 12B of the center section 12, and a strap 24 attached to the top surface of the visor 16 proximate the inner edge of the visor 16. The strap 23 on the center section 12 has loop fasteners, and the strap 24 attached to the visor 16 has hook fasteners for complementary engagement. Alternatively, the strap 23 on the center section 12 can have hook fasteners, and the strap 24 attached to the visor 16 can have loop fasteners. The distance that the rear portion 12B of the center section 12 extends down from the helmet can be adjusted by the user varying the point of connection of the two straps 23, 24. Alternatively the straps 23, 24 can be attached to the under surface of the center section 12 and visor 16, respectively.

As shown in FIGS. 1 and 2, a stiffening member, such as a plastic rod 26, is positioned at the outer edge of the visor 16 to help retain the shape of the visor 16. Alternatively, the stiff-

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ening member can be a square or flat wire or plastic rod, which would allow the apparatus 10 to be folded up similar to a windshield shade or band saw blade. With such a rigid and spring-loaded stiffening member 26, the visor 16 may consist of stretched fabric, and a supporting material, such as a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material, need not be used.

As shown in FIGS. 2 and 3, three elastic straps 30, 32, 34 are attached at the point of connection of the center section 12 and the inner edge of the visor 16. The male portion of a snap fastener 36 is attached to the end of each strap 30, 32, 34, and the complementary female portion of the snap fastener 38 is attached to the under surface of the visor 16. Alternatively, the female portion of the snap fastener can be attached to the straps 30, 32, 34, and the male portion can be attached to the visor 16. Also, other attachment means could be used, such as hook and loop fasteners or sliding straps.

In a preferred method of using the apparatus 10, the apparatus 10 is positioned over the bicycle helmet 40, the apparatus 10 is pulled over the helmet 40, which goes through the opening 14 of the center section 12 and engages the anti-slip section 18, as shown in FIG. 6. Each of the elastic straps 30, 32, 34 is positioned through a vent opening of the helmet 40, as shown in FIG. 4, and the male portions 36 of the snap fasteners on the straps 30, 32, 34, snap into the complementary female portions 38 positioned on the under surface of the visor 16, as shown in FIG. 5. The combination of the friction/anti-slip material and the straps 30, 32, 34 securely retains the brim 10 on the helmet 40. The elastic straps, 30, 32, 34, can be tucked under the interior padding of the helmet for comfort, as shown in FIG. 5. It should be noted that on rounded helmets not having the classic oblong shape, use of the straps 30, 32, 34 may not be necessary to secure the brim 10.

The apparatus 10 fits snugly around the helmet 40, and does not impede any of the important functions of the helmet 40. Protective features of the helmet are preserved. In this embodiment of the present invention, there is complete encompassing of the helmet circumference, providing shade around its entirety. The brim apparatus 10 allows vents in the helmet 40 to be exposed and still used, and allows for the cooling features of the helmet to be preserved.

A brim apparatus for use on a snow sports helmet according to another embodiment of the invention is illustrated in FIGS. 7-9, and shown generally at reference numeral 50. Examples of snow sports helmets include helmets used for skiing, snowboarding and other snow related activities. The apparatus 50 can be made of a fast drying material such as nylon, or other suitable material, including a water-resistant material such as GORE-TEX, or a material such as cotton or a cotton/polyester or polyester treated with a water resistant coating.

As shown in FIGS. 7 and 8, the apparatus 50 comprises a substantially oval flexible center section 52 defining an opening 54 sized to fit over a snow sports helmet 70, and a substantially oval visor 56 extending outwardly from the center section 52. The visor 56 is preferably made of closed-cell foam or other suitable material for water resistance. The underside of the visor 56 is preferably black to minimize the sunlight reflected from snow on the ground reflecting off the apparatus 50 and obstructing the user's view.

The center section 52 is preferably elastic and has a section of anti-slip material 58 for facilitating frictional engagement with the helmet 70. The anti-slip material is preferably compressible, or compressible in addition to being tacky. Exemplary materials for the anti-slip material include rubber, rub-

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berized fabrics, foams, coated foams, combinations thereof, or another material suitable for facilitating frictional engagement with the headgear.

The center section **52** can include means for adjusting the diameter of the opening **54** to accommodate helmets of varying size. As shown in FIG. **8**, the adjustment means can comprise two straps **61**, **62** attached to the center section **52**. One strap **61** can have hook fasteners, while the other strap **62** can have loop fasteners (or vice versa) for complementary engagement. As such, the diameter of the center section opening **54** can be adjusted by the user by varying the point of connection of the two straps **61**, **62**. Alternatively, the adjustment means can be a sliding strap or elastic.

The visor **56** has a front portion **56A** and a rear portion **56B**. Preferably, the rear portion **56B** is longer than the front portion **56A** to provide better coverage to the back of the neck of the user.

As shown in FIGS. **7** and **8**, a stiffening member, such as a plastic rod **66**, is positioned at the outer edge of the visor **56** to help retain the shape of the visor **56**. Alternatively, the stiffening member can be a square or flat wire or plastic rod, which would allow the apparatus **10** to be folded up similar to a windshield shade or band saw blade. With such a rigid and spring-loaded stiffening member **66**, the visor **56** may consist of stretched fabric, and a supporting material, such as a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material, need not be used.

As shown in FIG. **8**, a frontal reinforcing flap **60** can be attached at the inner edge of the underside of the front portion **56A** of the visor **56**. The front flap **60** helps prevent the apparatus **50** from coming off the helmet **70** when traveling at high speeds.

As shown in FIG. **8**, a loop **64** can be attached at the inner edge of the underside of the rear portion **56B** of the visor **56**. As shown in FIG. **9**, the loop can receive a goggle strap **72** of the snow sport helmet **70** to help retain the apparatus on the helmet **70** at high speeds, or in the case of a crash.

In a preferred method of using the apparatus **50**, the apparatus **50** is positioned over the snow sports helmet **70**, with the front portion **56A** of the visor **56** above the front of the helmet **70**, and the rear portion **56B** of the visor **56** above the rear of the helmet **70**. The apparatus **50** is pulled over the helmet **70** with the helmet **70** going through the opening **54** of the center section **52** and engaging the anti-slip section. The goggle strap **72** of helmet **70** is positioned through the rear loop **64**, as shown in FIG. **9**.

A brim apparatus according to another embodiment of the invention is illustrated in FIGS. **10-12**, and shown generally at reference numeral **100**. This brim apparatus **100** is particularly suited for use with mountain/rock climbing helmets and/or equestrian helmets. The apparatus **100** can be made of cotton, or other suitable material such as nylon, polyester, cotton/polyester blends, GORE-TEX, treated or water resistant material, stiff fabric interfacing, closed cell foam, lightweight plastic, or other suitable material.

As shown in FIGS. **10** and **11**, the apparatus **100** comprises a substantially oval flexible center section **102** defining a substantially oval opening **104** sized to fit over a mountain/rock climbing or equestrian helmet **140**, and a substantially oval, flexible visor **106** extending outwardly from the center section **102**.

The center section **102** shown in this embodiment is preferably elastic and has a section of anti-slip material **108** for facilitating frictional engagement with the helmet **140**. The center section **102** can include means for adjusting the diameter of the opening **104** to accommodate helmets of varying size. As shown in FIG. **11**, the adjustment means can com-

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prise two straps **121**, **122** attached to the center section **102**. One strap **121** can have hook fasteners, while the other strap **122** can have loop fasteners (or vice versa) for complementary engagement. As such, the diameter of the center section opening **104** can be adjusted by the user by varying the point of connection of the two straps **121**, **122**. Alternatively, the adjustment means can be a sliding strap or elastic.

The visor **106** shown in this embodiment has a front portion **106A** and a rear portion **106B**. In an alternative embodiment designed specifically for use on equestrian helmets that already have visors as part of the helmet, the front portion **106A** of the visor can be sewn so as to allow an integrated visor that is typically present on equestrian helmets to protrude there through. As shown in FIG. **11**, a loop **132** can be attached at the inner edge of the underside of the rear portion **106B** of the visor **106**.

In a preferred method of using the apparatus **100**, the apparatus **100** is positioned over the helmet **140**, with the front portion **106A** of the visor **106** above the front of the helmet **140**, and the rear portion **106B** of the visor **106** above the rear of the helmet **140**. The apparatus **100** is pulled over the helmet **140**, with the helmet **140** going through the opening **104** of the center section **102** and engaging the anti-slip section **108**, as shown in FIG. **12**. A hook and loop or sliding strap leash can be packaged with the apparatus **100**, and positioned through the rear loop **132** and attached to the existing straps on the helmet **140**. Also, a carabiner can be positioned through the rear loop **132**, and used for carrying the apparatus **100**. The brim apparatus **100** does not impede movement, and allows users to get close to rocks and other objects while climbing, and preserves proper helmet fit and function.

A brim apparatus for use on a multitude of different helmets is depicted in FIGS. **13-17** and shown generally at reference numeral **160**. This embodiment could be used with a variety of sports helmets including, but not limited to, snow sports, rock climbing/mountaineering, skating, paddling, equestrian, and rounded bicycle helmets. This embodiment may also be used with various hard hats. As shown in FIGS. **13** and **14**, the apparatus **160** in the figure has a substantially oval flexible center section **162** defining an opening **164** sized to fit over the headgear **198**, and a substantially oval visor **166** extending outwardly from the center section **162**. The apparatus **160** can be made of cotton, or other suitable material such as nylon, polyester, cotton/polyester blends or water resistant material such as GORE-TEX or treated fabric. The visor **166** can be made of a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material.

The visor **166** has a front portion **166A** and a rear portion **166B**. Preferably, but not necessarily, the rear portion **166B** is longer than the front portion **166A** to provide better coverage to the back of the neck of the user.

The center section **162** preferably has an elastic portion **167** and has a section of anti-slip material **168** attached to the center section **162** for facilitating frictional engagement with helmet **198**. The center section **162** can include a feature or means for adjusting the diameter of the opening **164** to accommodate helmets of varying size. As shown in FIGS. **13** and **14**, the size adjustment feature can comprise a strap **171** and ladder lock buckle **172** attached to the center section **162**. The strap **171** slides through a guide tube **173** that is attached near the top of the rear center section **162**. As such, the diameter of the center section opening **164** can be adjusted by the user by varying the length of the strap **171** at the ladder lock buckle **172**. One skilled in the art can appreciate that other means than a ladder lock buckle **162**, such as a complementary engaging sliding buckle, hook and loop fastener

strap, ring with an associated strap with hooks or buckles, or other suitable material, can be used for adjustment of strap length. Furthermore, a guide tube **173** is not necessarily required and other alternatives such as a channel in the center section **162**, a loop, or no guide if the span is small, could be used. A section of anti-slip material **174** may also be present on the guide tube **173**.

As shown in FIGS. **13** and **14**, a stiffening member, such as a plastic rod, is positioned at the outer edge of the visor **176** to help retain the shape of the visor **166**. Alternatively, the stiffening member can be a square or flat wire or plastic rod, which would allow the apparatus **160** to be folded up similar to a windshield shade or band saw blade. With such a rigid and spring-loaded stiffening member, the visor **166** may consist of stretched fabric, and a supporting material, such as a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material, need not be used.

As shown in FIGS. **13** and **14**, the visor **166** may have vents **180**, **181** that allow air to flow through them when traveling at high speed. Any number of vents **180**, **181** may be used and positioned at any location on the visor **166**. Vents **180**, **181** may be passive as holes or may be active and open as air flows there through. Additionally, the visor **166** may be made of a mesh material without a covering and allow air to flow there through. The vents may have a wide variety of shapes. In one embodiment a vent is shaped as one of the following including an oval, circle, square, or slit. The vent reduces lift and pressure on the visor when moving at speed or in windy conditions.

As shown in FIGS. **13** and **14**, the visor may have an accessory attachment **182** positioned at the edge of the visor **166** to allow for complementary engagement of accessories, such as fabric curtains, mosquito netting, or other suitable accessories. The accessory attachment **182** may consist of complementary engaging zippers, hook and loop fasteners, snaps, or other suitable materials to facilitate attachment of accessories with the complementary engaging zippers, hook and loop fasteners, snaps, or other suitable materials to the apparatus **160**.

The brim apparatus shown in FIG. **13** also includes a pocket **184**. The pocket **184** may serve to hold and conceal a foldable cover that can be unfolded from the pocket and used to cover the helmet **198**. Such a cover may be useful in the case of inclement weather.

FIG. **14** depicts a reinforcement piece **185** at the rear of the center section **162**. This reinforcement piece prevents the center section **162** from flopping as the user experiences high winds or goes over uneven terrain.

As mentioned previously, some helmets and hard hats have a visor that is pre-integrated or molded into the headgear itself. As shown in FIGS. **14**, **15**, and **17**, the apparatus **160** can have a pocket **186** for receiving a pre-existing visor **199** that was previously integrated with the helmet. The pocket **186** may be closed around the pre-existing visor **199** using hook and loop fasteners attached to opposite sides of the inner surface of the pocket, or other suitable device, to form a clamp. The pocket therefore creates a clamp, preventing the visor from rotation and from coming off the headgear.

As shown in FIG. **14**, a loop **188** can be attached at the inner edge of the underside of the rear portion **166B** of the visor **166**. As shown in FIG. **16**, the loop **188** can receive a goggle strap of the helmet **198** or may be attached to an existing helmet strap by opening the loop and refastening it into a closed shape. This loop **188** can be used to retain the apparatus **160** on the helmet. This loop may be used to retain tools.

FIG. **16** shows a brim apparatus **160** positioned over a sports helmet **198**, with the front portion **166A** of the visor

166 above the front of the helmet **198**, and the rear portion **166B** of the visor **166** above the rear of the helmet **198**. The apparatus **160** is pulled over the helmet **198**, with the helmet **198** going through the opening **164** of the center section **162** and engaging the anti-slip section. When the apparatus **160** is affixed to the sports helmet, the center section **162** is adapted to form a stop surface **190**, wherein the stop surface **190** prohibits the visor **166** from upward rotation. When affixed to the helmet, the center section clamps the apparatus onto the helmet and prevents upward or downward rotation and the brim from coming off the helmet. The center section may form a shelf on which a portion of the underside of the helmet may sit. The other side of the stop surface on the center section contacts a portion of the underside of the helmet when the apparatus is affixed to the helmet.

The stop surface shown in FIG. **16** arises from the design of the brim apparatus and is based on the geometry of the apparatus with respect to the headgear. As shown in FIG. **14**, center section is shown with at least one visor spatial control member **192**, **194** which serves to control the spacing of the visor relative to the helmet when the brim is properly attached to the helmet. In the variation of the invention shown in FIG. **14**, visor spatial control feature includes two stitches **192**, **194**. However, other examples of a visor spatial control feature include but are not limited to clips, staples, ties, etc. The spatial control feature may not be externally visible and can be hidden during manufacture of the apparatus. When the helmet is engaged with the brim apparatus, in this embodiment, the visor spatial control feature serves to shift rearward the visor, creating the stop surface **190**, regardless of the size of the helmet.

The spatial control feature may vary. As an alternative to the spatial control member **192**, **194** shown in FIG. **14**, the center section **162** can be shortened relative to the inner circumference of the visor **166** to preserve functionality of the stop surface **190** when the apparatus **160** is placed on a helmet.

The goggle strap of helmet **198** is positioned through the rear loop **188**. When the apparatus **160** is used with a helmet or hard hat that has a pre-integrated visor, the pre-integrated visor **199** is inserted into the pocket **186**, as shown in FIG. **17**. Attachment of the apparatus **160** to the helmet **198** proceeds similarly to that shown in FIG. **16**.

A brim apparatus according to another embodiment of the invention is illustrated in FIGS. **18-21**, and shown generally at reference numeral **200**. This embodiment of the invention is intended for use with bicycle helmets but could also be used with other headgear. As shown in FIGS. **18** and **19**, the apparatus **200** comprises a substantially oval flexible center section **202** defining an opening **204** sized to fit over a bicycle helmet **250**, and a substantially oval visor **206** extending outwardly from the center section **202**. The apparatus **200** can be made of cotton, or other suitable material such as nylon, polyester, cotton/polyester blends or water resistant material such as GORE-TEX or treated fabric. The visor **206** can be made of a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material.

The visor **206** has a front portion **206A** and a rear portion **206B**. Preferably, the rear portion **206B** is longer than the front portion **206A** to provide better coverage to the back of the neck of the user.

The center section has a front portion **202A** and a rear portion **202B**. Preferably, the rear portion **202B** is greater in length than the front portion **202A** to account for the relatively high positioning of bicycle helmets. On other helmets, the longer rear portion **202B** helps to position the visor so that it provides better neck coverage. The center section **202** pref-

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erably has an elastic portion **207** and has a section of anti-slip material **208** attached to the center section **202** for facilitating frictional engagement with helmet **250**. The center section **202** can include various features and means for adjusting the diameter of the opening **204** to accommodate helmets of varying size. As shown in FIGS. **18** and **19**, the size adjustment feature can comprise a strap **211** and ladder lock buckle **212** attached to the center section **202**. The strap **211** slides through any combination of guide straps **227**, **223**, **221** that are attached near the top of the rear center section **202B** to accommodate different topological features of particular bicycle helmets, as shown in FIGS. **19** and **20**. As such, the diameter of the center section opening **204** can be adjusted by the user by varying the length of the strap **211** at the ladder lock buckle **212**. One skilled in the art can appreciate that other means than a ladder lock buckle **212**, such as a complementary engaging sliding buckle, hook and loop fastener strap, ring with an associated strap with hooks or buckles, or other suitable material, can be used for adjustment of strap length.

The apparatus **200** has a vertical adjustment feature **214** to adjust the vertical position of the visor **206** relative to the center section **202**. As shown in FIG. **18**, the adjustment feature can consist of a hook and loop fastener strap **215** passed through a ring **216** that is attached near the top of the rear center section **202B**. A sliding strap or other suitable means may also be used.

The apparatus **200** also has a visor tilt angle adjustment feature **218** to adjust the angle at which the visor extends from the center section. As shown in FIG. **18**, the adjustment feature can consist of a hook and loop fastener strap **219** passed through a ring **220** that is attached near the top of the front center section **202A**. A sliding strap or other suitable means may also be used. The tilt angle (β) may vary and preferably ranges from -45 degrees to 70 degrees and more preferably -15 to 45 degrees. The tilt angle (β) is illustrated in FIG. **21** by reference symbol β .

As shown in FIGS. **18** and **19**, a stiffening member, such as a plastic rod, is positioned at the outer edge of the visor **222** to help retain the shape of the visor **206**. Alternatively, the stiffening member can be a square or flat wire or plastic rod, which would allow the apparatus **200** to be folded up similar to a windshield shade or band saw blade. With such a rigid and spring-loaded stiffening member, the visor **206** may consist of stretched fabric, and a supporting material, such as a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material, need not be used.

As shown in FIGS. **18** and **19**, the visor **206** may have vents **224**, **225** that allow air to flow through them when traveling at high speed. Any number of vents **224**, **225** may be used and positioned at any location on the visor **206**. Vents **224**, **225** may be passive as holes or may be active and open as air flows there through. Additionally, the visor **206** may be made of a mesh material without a covering and allow air to flow through the visor **206**.

As shown in FIGS. **18** and **19**, the visor may have an accessory attachment **228** positioned at the edge of the visor **222** to allow for complementary engagement of accessories, such as fabric curtains, mosquito netting, or other suitable accessories. The accessory attachment **228** may consist of complementary engaging zippers, hook and loop fasteners, snaps, or other suitable materials to facilitate attachment of accessories to the apparatus **200**.

As shown in FIG. **18**, a pocket **230** may conceal a foldable cover that can be unfolded from the pocket and used to cover the helmet **250**. Such a cover may be useful in the case of inclement weather.

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FIGS. **19** and **20** depict reinforcement pieces **232**, **233**, **234** at the rear of the center section **202B**. This reinforcement piece prevents the center section **202** from extensively flopping as the user experiences high winds or goes over uneven terrain.

FIG. **21** shows a brim apparatus **200** positioned over bicycle helmet **250**, with the front portion **206A** of the visor **206** above the front of the helmet **250**, and the rear portion **206B** of the visor **206** above the rear of the helmet **250**. The apparatus **200** is pulled over the helmet **250**, with the helmet **250** going through the opening **204** of the center section **202** and engaging the anti-slip section **208**. When the apparatus **200** is affixed to the bicycle helmet, the center section **202** is adapted to form a stop surface **240**, wherein the stop surface **240** clamps the apparatus **200** to the helmet **250** and prohibits the visor **206** from upward rotation. When affixed to the helmet, the center section clamps the brim onto the helmet and prevents rotation and the brim from coming off the helmet. The center section may form a shelf on which a portion of the underside of the helmet may sit. The other side of the stop surface on the center section contacts a portion of the underside of the helmet when the apparatus is affixed to the helmet.

FIG. **22** shows a bottom view of another preferred embodiment of the invention. As shown in FIG. **22**, the apparatus **260** comprises a substantially oval flexible center section **262** defining an opening **204** sized to fit over a bicycle helmet, and a substantially oval visor **266** extending outwardly from the center section **262**. The apparatus **260** can be made of cotton, or other suitable material such as nylon, polyester, cotton/polyester blends or water resistant material such as GORE-TEX or treated fabric. The visor **266** can be made of a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material. The visor has a front portion **266A** and a rear portion **266B**.

The apparatus **260** in this embodiment uses a harness **270** to attach to the bicycle helmet. The harness consists of sliding straps **272**, **273** fed through guides **275**, **276** that are attached near the top of the center section **262**. When the straps **272**, **273** are tightened, a front cover, patch, or glove member **280** that has a longer center section **280A** than upper **280B** and lower **280C** engages the front of the bicycle helmet and a rear cup **290** engages the rear of the bicycle helmet. The rear cup **290** has a center hole **291** and is shaped so as to fit the rear end of a tapered bicycle helmet.

In a preferred method of using the apparatus **260**, the apparatus **260** is positioned over the bicycle helmet, with the front portion of the visor **266A** above the front of the helmet, and the rear portion **266B** of the visor **266** above the rear of the helmet. The apparatus **260** is pulled over the helmet, with the helmet going through the opening **264** of the center section **262**. The harness **270** engages with the bicycle helmet by positioning the front cover **280** at the front of the bicycle helmet and the rear cup **290** at the rear of the bicycle helmet and then tightening the sliding straps **272**, **273**.

A brim apparatus according to another embodiment of the invention is illustrated in FIGS. **23-25**, and shown generally at reference numeral **300**. As shown in FIGS. **23** and **24**, the apparatus **300** comprises a substantially oval flexible center section **302** defining an opening **304** sized to fit over a sports helmet **350**, and a visor **306** radially or outwardly extending from the center section **302** about a portion of the circumference of the center section **302**. The center section is depicted in FIGS. **23-25** as a generally contiguous piece of fabric, however the center section may take other forms and need not be contiguous. The center section may be comprised of any suitable material and combinations of multiple types of mate-

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rials, such as a portion of fabric and a portion of a strap so as to define an opening through which headgear can fit. The visor span angle α in this embodiment is about -60 to 60 degrees or spans a total arc angle of about 120 degrees. However, the span angle α may vary greatly. An exemplary non limiting range for the total arc angle is from 60 to 180 degrees, and more preferably from 90 to 150 degrees.

The apparatus **300** can be made of cotton, or other suitable material such as nylon, polyester, cotton/polyester blends or water resistant material such as GORE-TEX or treated fabric. The visor **306** can be made of a stiff fabric interfacing, closed cell foam, lightweight plastic or other suitable material.

The center section **302** preferably has an elastic portion **307** and has a section of anti-slip material **310** attached to the center section **302** for facilitating frictional engagement with helmet **350**. The center section **302** can include means for adjusting the diameter of the opening **304** to accommodate helmets of varying size. As shown in FIGS. **23** and **24**, the size adjustment feature can comprise a strap **311** and ladder lock buckle **312** attached to the center section **302**. The strap **311** slides through a guide tube **313** that is attached near the top of the rear center section **302**. The guide tube **313** has a piece of anti-slip material **314** attached to it. As such, the diameter of the center section opening **304** can be adjusted by the user by varying the length of the strap **311** at the ladder lock buckle **312**. One skilled in the art can appreciate that other means than a ladder lock buckle **312**, such as a complementary engaging sliding buckle, hook and loop fastener strap, ring with an associated strap with hooks or buckles, or other suitable material, can be used for adjustment of strap length.

As shown in FIGS. **23** and **24**, a stiffening member, such as a plastic rod, is positioned at the outer edge of the visor **316** to help retain the shape of the visor **306**. The stiffening member may extend into the center section **302** to maintain rigidity and prevent flopping. Alternatively, the stiffening member can be a square or flat wire or plastic rod or other suitable material.

FIG. **25** shows a brim apparatus according to one embodiment of the invention positioned over the sports helmet **350**, with the front portion of the visor **306** above the front of the helmet **350**, and the rear portion of the center section **302** above the rear of the helmet **350**. The apparatus **300** is pulled over the helmet **350**, with the helmet **350** going through the opening **304** of the center section **302** and engaging the anti-slip section **310** and pro-friction **314** material. When the apparatus **300** is affixed to the sports helmet, the center section **302** is adapted to form a stop surface **340**, wherein the stop surface **340** prohibits the visor **306** from upward rotation. The stop surface also acts to clamp the apparatus **300** to the helmet **350** and prevents it from upward or downward rotation and from coming off the helmet. The center section also may form a shelf on which a portion of the underside of the helmet may sit. The other side of the stop surface on the center section contacts a portion of the underside of the helmet when the apparatus is affixed to the helmet.

A brim apparatus according to another embodiment of the invention is illustrated in FIGS. **26-29**, and shown generally at reference numeral **400**. The apparatus includes a visor **404** radially extending from a center section **406**. Unlike the previous embodiments, however, the visor has a different shape. The visor **404** shown in FIGS. **26-29** has a cowboy hat shape. Lateral portions **420** are manipulated to curve upwards using straps **430**. The degree of curvature may be adjusted by adjusting the straps **430**. Adjusting the curvature of the visor improves aerodynamic performance.

Although straps **430** are shown in FIGS. **26-29** to hold lateral regions in an upward curved orientation, other means

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may be used to hold or adjust the curvature of the various regions of the visor. Examples include Velcro straps, snaps, eyelets, wire and plastic loops, etc. Additionally, the visor may include a preformed curvature or spring loaded orientation which biases the visor in a particular orientation and curvature. Shaped foams, internal ribs, and molded plastics or other materials may be incorporated into the visor to hold a desired shape.

The apparatus **400** is also shown having a visor tilt angle adjustment feature **414** to adjust the angle at which the front portion of the visor **404** extends from the center section **406**. As shown in FIG. **27**, the adjustment feature can consist of a hook and loop fastener strap passed through a ring that is attached near the top of the front center section. A sliding strap or other suitable means may be used. The tilt angle may vary and may range as described above in connection with the other brim embodiments incorporating a tilt angle adjustment feature.

A brim apparatus according to another embodiment of the invention is illustrated in FIGS. **30-32**, and shown generally at reference numeral **500**. The apparatus **500** is similar to the brim apparatus described above except that it includes a detachable crown, cover or cap portion **520**. The crown **520** is shown engaged to the center section **512** via three hook **524** and loop **522** fasteners on the center section and crown respectively. However, a wide range of fasteners and materials including but not limited to zippers, snaps, and so forth may be used to engage crown with the visor. Velcro may be used to attach the cover to the center section or visor. One or more strips of Velcro may be placed around the center section. The fastener means may be contiguous or include discrete elements.

A brim apparatus according to another embodiment of the invention is illustrated in FIGS. **33-35**, and shown generally at reference numeral **600**. The apparatus **600** includes a visor **610** radially extending from a center section **620**.

Similar to the embodiments described herein, the diameter of the center section and brim may be adjusted to engage the circumference of the hardhat. In the apparatus shown in FIGS. **33-35**, the diameter of the center section may be adjusted using a rope which extends through a channel in the center section. The rope may be tightened as desired and locked via cord lock **630**. However, the invention is not intended to be so limited. Other techniques and means may be incorporated to snugly secure the brim apparatus to the hard hat or helmet.

Additionally, in an alternative embodiment, the diameter of the center section is non-adjustable. The opening of the center section is pre-fit for a particular size or size range of headgear. Additionally, in embodiments, the center section may comprise a resilient or elastic portion such that the diameter of the opening may conform to the outer circumference of the headgear. The opening may be designed to be slightly undersized relative to the headgear such that when the headgear is placed within the opening of the brim apparatus, a snug fit is obtained. Additionally, combinations of the above may be incorporated into the brim apparatus. For example, an adjustable and elastic center section may be provided to suitably fit a headgear.

FIG. **33** also shows a clamp or stop surface **640** when the brim apparatus **600** is secured to the hard hat **612**. The stop surface serves to snugly secure the short pre-integrated bill on hard hats. The pre-integrated bill of the hard hat rests on top of the inner lip **642** of the visor **610**, creating a stop surface at the inner lip of the visor **642**. Additionally, in some embodiments, the bill does not directly contact the visor or inner lip of the visor, and rests on the center section **620** itself. For

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example, this can happen if the outer circumference of the hard hat is smaller than the length of the center section where it is attached to the brim. The center section is tightened over the bill and to the exterior of the hard hat, thereby clamping or holding the pre-integrated bill of the hard hat in a circumferential pocket formed between the visor 640 and the tightened center section 620, or deform center section 620 around the bill. This serves to securely clamp or hold the brim apparatus 600 to the hard hat 612.

Although the stop surface is shown positioned towards the front of the headgear, the stop surface may be formed at other locations including lateral positions, rearward locations, and other locations along the circumference of the headgear. The stop or clamping surface serves to prevent upward rotation of the visor and to snugly hold the center section of the brim apparatus to various helmets, hardhats and other headgear. The center section may form a shelf on which a portion of the underside of the helmet may sit. The other side of the stop surface on the center section contacts a portion of the underside of the helmet when the apparatus is affixed to the helmet.

Additionally, although a rope and cord lock 630 is shown to secure the center section to the hard hat (and to form the stop surface), other mechanisms may be incorporated into the brim apparatus to secure the center section to the hard hat and to form the stop surface. The invention is intended only to be limited as recited in the appended claims. All the features of the preferred embodiments described above are interchangeable on the various embodiments except where such modification would render the invention inoperable. Also, it should be noted that while the preferred embodiments disclosed above are described as being used with bicycle, skateboard, snow sport, paddling, mountain/rock climbing and equestrian helmets, the invention is not so limited, and can be used in conjunction with a variety of headgear, including hard hats used in construction, dock loading, and airport baggage handling.

It should also be noted that any of the preferred embodiments may be packaged with a sports helmet to form a sports helmet system. In one embodiment a system includes a sports helmet such as, e.g., a bike helmet model Venture, manufactured by Easton Bell Sports, Inc. (Van Nuys, Calif., USA), and a brim as described herein. A system for snowboarding may include a helmet, brim, and goggles. Helmet systems may also include covers, nets, and or clips.

A brim apparatus for use on headgear and a method of using same are described above. Various changes can be made to the invention without departing from its scope. The above description of the preferred embodiments and best mode of the invention are provided for the purpose of illustration only and not limitation.

The invention claimed is:

1. A brim apparatus for attaching to a helmet, the apparatus comprising:

a center section having an adjustable size for detachably fitting about a circumference of the helmet; and
a visor made from a stiff material and radially extending from the center section, wherein the center section is adapted to clamp around a front edge of the helmet such that a portion of the center section opposes an underside surface of the helmet and simultaneously opposes an outer surface of the helmet, and forms a stop surface opposing an upper surface of the visor when the apparatus is affixed to the helmet, wherein the stop surface prohibits the visor from upward rotation.

2. The apparatus of claim 1 further comprising a size adjustment feature to adjust the diameter of the center section to securely fit the helmet.

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3. The apparatus of claim 1 further comprising vertical adjustment feature to adjust the vertical position of the visor relative to the center section.

4. The apparatus of claim 1 further comprising a visor tilt angle adjustment feature to adjust the tilt angle at which the visor extends from the center section.

5. The apparatus of claim 1 further comprising a pocket for receiving a pre-existing visor previously integrated with the helmet.

6. The apparatus of claim 1 wherein the visor comprises a stiffening member.

7. The apparatus of claim 1 further comprising anti-slip material.

8. The apparatus of claim 1 wherein the visor further comprises a vent.

9. The apparatus of claim 1 wherein the visor radially extends from the center section about a portion of the circumference of the center section.

10. The apparatus of claim 1 wherein the apparatus is designed to fold-up for storage.

11. A brim apparatus for attaching to a helmet, said helmet having a bill-less front portion and a strength and rigidity to protect the head of the wearer from a sports injury, the apparatus comprising:

a center section having an opening sized for detachably fitting about a circumference of the helmet, and adapted to clamp onto the bill-less front portion of the helmet when attached to the helmet such that a portion of the center section opposes an underside surface of the helmet and simultaneously opposes an outer surface of the helmet; and

a visor radially extending from the center section.

12. The apparatus of claim 11 further comprising a size adjustment feature to adjust the diameter of the center section to securely fit the helmet.

13. The apparatus of claim 11 wherein the center section is configured so as to prevent the visor from rotating.

14. The apparatus of claim 11 wherein the visor comprises a stiffening member.

15. The apparatus of claim 11 further comprising a frontal reinforcing flap for preventing visor rotation.

16. The apparatus of claim 11 wherein the visor further comprises a vent.

17. The apparatus of claim 11 further comprising anti-slip material.

18. The apparatus of claim 11 further comprising a foldable cover and a pocket for holding the cover when folded.

19. The apparatus of claim 11 wherein the visor radially extends from the center section about a portion of the circumference of the center section.

20. The apparatus of claim 11 further comprising a plurality of straps disposed on an interior of the center section.

21. A sports helmet system comprising:

a sports helmet comprising a blunt front edge; and
a brim comprising a center section adapted to detachably fit on the exterior of the sports helmet and to clamp onto the blunt front edge such that a portion of the center section opposes an underside surface of the helmet and simultaneously opposes an outer surface of the helmet, and wherein the brim further comprises a visor radially extending from the center section and wherein the center section is adapted to form a stop surface opposing an upper surface of the visor when the apparatus is affixed to the sports helmet, wherein the stop surface prohibits the visor from upward rotation.

22. A brim apparatus for attaching to headgear, the apparatus comprising:

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a center section having an opening sized for detachably fitting about a circumference of the headgear; and
 a visor radially extending from the center section; and wherein the center section forms a clamp about a front edge of the headgear such that a portion of the center section opposes an underside surface of the headgear and simultaneously opposes an outer surface of the headgear which securely holds the visor and prevents the visor from rotation when the center section is snugly fitted on the headgear.

23. The apparatus of claim 22 wherein the opening has a substantially fixed size.

24. The apparatus of claim 22 wherein the visor is made from a stiff material.

25. The apparatus of claim 22 further comprising a crown detachably connected to top of the center section so as to cover the opening.

26. The apparatus of claim 22 wherein the visor comprises a front portion, rear portion, and lateral portions, and the lateral portions curve upward.

27. The apparatus of claim 22 further comprising at least one size adjustment feature to adjust the diameter of the center section to securely fit the headgear.

28. A brim apparatus for attaching to headgear, said headgear having a front edge, the apparatus comprising:

a flexible center section comprising at least one size adjustment feature, and having an adjustable size for detachably fitting about a circumference of the headgear when the center section is fitted onto the headgear and the size adjustment feature is locked; and

a visor radially extending from the center section, and wherein the flexible center section forms a clamp around the front edge of the headgear such that a portion of the center section opposes an underside surface of the headgear and simultaneously opposes an outer surface of the headgear when the center section is fitted about the headgear and the size adjustment feature is locked, thereby prohibiting the visor from detachment.

29. The apparatus of claim 28 further comprising an anti-slip material on an interior surface of the center section, said

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anti-slip material providing a friction between the outer surface of the headgear and the anti-slip material to prohibit the brim apparatus from slipping when the brim apparatus is fastened and locked to the headgear.

30. The apparatus of claim 29 wherein the anti-slip material comprises a compressible material.

31. The apparatus of claim 30, wherein the anti-slip material comprises a plurality of layers including a rubberized material layer and the compressible layer.

32. The apparatus of claim 28 wherein the visor further comprises a stiffening member.

33. The apparatus of claim 28 further comprising a detachable cover, the cover being attachable to the center section, and forming a cover over the top of the headgear.

34. The apparatus of claim 28 wherein the visor further comprises a vent.

35. The apparatus of claim 28 wherein the visor radially extends from a portion of the circumference of the center section corresponding to an angle less than 360 degrees.

36. The apparatus of claim 28 further comprising a vertical adjustment feature to adjust a vertical position of the visor relative to the center section, the vertical adjustment feature connected to the center section and the visor.

37. The apparatus of claim 28 further comprising a visor tilt angle adjustment feature to adjust the tilt angle at which the visor extends from the center section, said tilt angle adjustment feature located towards the front of the brim apparatus.

38. The apparatus of claim 1 wherein the outer surface is also a lateral surface.

39. The apparatus of claim 11 wherein the outer surface is also a lateral surface.

40. The sports helmet system of claim 21 wherein the outer surface is also a lateral surface.

41. The apparatus of claim 22 wherein the outer surface is also a lateral surface.

42. The apparatus of claim 28 wherein the outer surface is also a lateral surface.

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